GENERAL MEETING OF THE BOARD OF DIRECTORS OF THE CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

RESOLUTION NO. 20-071

APPROVING WORK AUTHORIZATION NO. 1 UNDER THE AMENDED AND RESTATED MAINTENANCE SERVICES CONTRACT WITH KAPSCH TRAFFICCOM USA, INC. FOR THE RENEWAL, REPLACEMENT AND UPGRADE OF EQUIPMENT ON THE MOBILITY AUTHORITY'S TOLL COLLECTION SYSTEM

WHEREAS, by Resolution No. 19-072 dated November 20, 2019, the Central Texas Regional Mobility Authority (Mobility Authority) approved an Amended and Restated Maintenance Services Contract (Maintenance Services Contract) with Kapsch TrafficCom USA, Inc.; and

WHEREAS, the Executive Director and Kapsch TrafficCom USA, Inc. have negotiated proposed Work Authorization No. 1 under the Maintenance Services Contract for the renewal, replacement and upgrade of various equipment on the Mobility Authority's Toll Collection System which is attached hereto as Exhibit A; and

WHEREAS, the Executive Director recommends that the Board approve proposed Work Authorization No. 1 in an amount not to exceed \$1,318,005.27 and in the form or substantially the same form attached hereto as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board hereby approves Work authorization No. 1 under the Amended and Restated Maintenance Services Contract with Kapsch TrafficCom USA, Inc.; and

BE IT FURTHER RESOLVED that the Executive Director is authorized to finalize and execute Work Authorization No. 1 with Kapsch TrafficCom USA, Inc. on behalf of the Mobility Authority in an amount not to exceed \$1,318,005.27 and in the form or substantially the same form attached hereto as <u>Exhibit A</u>; and

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 28th day of October 2020.

Submitted and reviewed by:

Geoffrey Petrov, General Counsel

Approved:

Robert W. Jenkins, Jr. Chairman, Board of Directors

<u>Exhibit A</u>

CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

WORK AUTHORIZATION WORK AUTHORIZATION NO. 1 TOLL SYSTEM MAINTENANCE

THIS WORK AUTHORIZATION ("WA No. 1") is made pursuant to the terms and conditions of the Article 2 of the First Amended and Restated Maintenance Services Contract dated November (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the "Authority" or "CTRMA"), and Kapsch TrafficCom USA, Inc. (the "Contractor," also referred to in attachments to this WA No. 1 as the "System Integrator" or "SI").

PART I. The Contractor will perform toll system maintenance services generally described in the Kapsch Work Orders attached hereto as **Attachment A**.

PART II. The maximum amount payable under this WA No. 1 is \$1,318,005.27. This amount is based upon the pricing obtained, and is documented by the fee schedule set forth in **Attachment A**.

PART III. Payment to the Contractor for the services established under this WA No. 1 shall be made in accordance with the Contract.

PART IV. This WA No. 1 shall become effective on the date both parties have signed this WA No. 1. This WA No. 1 will terminate when all work orders are complete and accepted by the Mobility Authority, or upon payment of the maximum amount payable in **Part II**, whichever date is first, unless extended as provided by the Contract.

PART V. This WA No. 1 does not waive any of the parties' responsibilities and obligations provided under the Contract, and except as specifically modified by this WA No. 1, as such responsibilities and obligations under the Contract remain in full force and effect.

KAPSCH TRAFFICCOM, USA:

Date

Typed/Printed Name and Title

CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

Executed for and approved by the Central Texas Regional Mobility Authority for the purpose and effect of activating and/or carrying out the orders, established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.

Signature

Date

Mike Heiligenstein, Executive Director

LIST OF ATTACHMENTS

Attachment A

Kapsch Work Orders for Toll System Maintenance

ATTACHMENT A

KAPSCH WORK ORDERS FOR TOLL SYSTEM MAINTENANCE



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA 45SW WO 3 – TapCo WWD Firewall

October 16th, 2020





CTRMA 45SW WO 3 – TapCo WWD Firewall

Change Request Description

Request ID	CTRMA 45SW WO 3		
Request Date	10/07/2020		
System Module	TapCo Wrong Way		
Change Type	Detection		
Change Type Description	Hardware/equipment		
	ong Way Detection is on the Ta	nCo cellular network & needs	to be integrated into the
CTRMA fiber netw			
Affected Project			
🗌 183			
290			
🗌 Морас			
□ SH71			
🖾 45SW			
🗌 183S			
Affected Require	ments		
N/A			
Affected System	Processes:		
N/A			
Description of th	e Solution		
The Tapco Wrong	Way Detection solution at 455	W is on the TapCo cellular net	work. TapCo has
requested this net	twork to be integrated into the	CTRMA fiber field network via	a the internet.
Work order scope	:		
- The fiber	laterals to support this request	have already been installed.	
 TapCo has 	s provided a quote to install sw	itches locally.	
 Kapsch wi 	Il install patch boards & firewal	II.	
- The revise	ed field network and high level	network topology are available	e for review.
Traffic control: CT	RMA will pay for any MOT need	ded for install. We are estimat	ing the traffic control to
not exceed \$20,00	00. After the install is completed	d, Kapsch will detail the MOT/	traffic control as a pass-
through line item	with the standard 10% markup	and will adjust the invoice to	match.
	ts: \$3500/closure, plus \$1,000	•	-
	m all tasks in 3 nights (\$13,500)		
• •	and these closures will be used	for both annual TapCo recerti	fication and TapCo
switch installation			
) days from submission.		
Impact	🗌 High	🖂 Medium	Low
	AAAAAAAAAAAAA		
Total Quantity	\$84,901.04 (not to exceed) Outlined below		

Prepared by:	Lisa Gauger	Created :	11/08/2019	Page:	2 of 4
File:	CTRMA 45SW WO 3 – TapCo WWD Firewall	Last Mod:	10/16/2020	Version:	1.3



System Integration



CTRMA 45SW WO 3 – TapCo WWD Firewall

	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	2180-SYSTEM - *Panel assemblies to upgrade field	3	\$24,226.89	\$2,422.69	\$26,649.58
2	2180-CUSTOM - Add the 12-24 VDC converter to 400279	1	\$0.00	\$0.00	\$0.00
3	RS10114 - panel swap to be done by TAPCO	1	\$6,500.00	\$650.00	\$7,150.00
4	Axiom Memory Solutions - Part#: GLC-LH-SM-AX	8	\$416.00	\$41.60	\$457.60
5	Altnet - Part#: S9DLCUSTUV2Y-03	10	\$130.00	\$13.00	\$143.00
6	Cisco Systems - Part#: ASA5506-K9	1	\$472.00	\$47.20	\$519.20
7	Cisco Systems - Part#: CON-SNT-ASA5506K	1	\$97.00	\$9.70	\$106.70

Total Hardware \$35,026.08

	Labor	No. of Hours	Hr. Contract Rate	Total
1	Software Engineer	0.00		
2	System/Hardware Engineer	100.00	\$172.52	\$17,252.00
3	Technician - Ordering & receiving equipment/invoices	12.00	\$120.90	\$1,450.80
4	Business Analyst	0.00	\$157.59	\$0.00
5	Database Administrator	0.00	\$224.14	\$0.00
6	Documentation Clerk	8.00	\$161.66	\$1,293.28
7	Testing Engineer	0.00	\$171.17	\$0.00
8	Network Engineer/Administrator	16.00	\$156.22	\$2,499.52
9	Project Manager	24.00	\$224.14	\$5,379.36
	Total Hou	urs: 160.00	Total Labor:	\$27,874.96

Subcontractor	Quantity	Cost	10% Markup	Extended Price
Road Closures - will be adjusted to match MOT invoices + Markup	1	\$20,000.00	\$2,000.00	\$22,000.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00

\$22,000.00 Total Subcontractor

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM-Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total O	OCs / Travel	\$0.00

TOTAL PRICE

\$84,901.04

Prepared by:	Lisa Gauger	Created :	11/08/2019	Page:	3 of 4
File:	CTRMA 45SW WO 3 – TapCo WWD Firewall	Last Mod:	10/16/2020	Version:	1.3



CTRMA 45SW WO 3 – TapCo WWD Firewall

Client Accep	tance:
Client name	
Date	
Signature	
-	
Kapsch Acce	eptance
Name	
Date	
Signature	
-	

1 Reference Documents:

N/A

2 Document Version History

Version	Created	Created by	Comments
1.0	11/08/2019	Lisa Gauger	Initial Submission
1.1	09/08/2020	Lisa Gauger	Revised scope of change order & updated pricing.
1.2	10/07/2020	Lisa Gauger	Define MOT costs and edit description of tasks.
1.3	10/16/2020	Lisa Gauger	Updated doc to be 'Work Order', rather than 'Change
		_	Order'

Prepared by:	Lisa Gauger	Created :	11/08/2019	Page:	4 of 4
File:	CTRMA 45SW WO 3 – TapCo WWD Firewall	Last Mod:	10/16/2020	Version:	1.3



Pricing Proposal

Kapsch TrafficCom USA, Inc.

Sean Staehli

7701 Metropolis Drive Bldg 14, Suite 100 Austin, TX 78744 United States Phone: (512) 596-7238 Fax: Email: Sean.Staehli@kapsch.net

All Prices are in US Dollar (USD)

Quotation #: 19183044 Created On: 7/23/2020 Valid Until: 7/31/2020

Inside Sales Account Manager

Paul Perez

1501 South Mo-Pac Expressway Suite 400 Austin, TX 78746 Phone: 512-814-4102 Fax: 512-814-4103 Email: Paul_Perez@shi.com

Product	Qty	Your Price	Total
Cisco ASA 5506-X with FirePOWER Services - Security appliance - 8 ports - GigE - desktop	1	\$472.00	\$472.00
Cisco Systems - Part#: ASA5506-K9 SNTC-8X5XNBD ASA 5506-X with FirePOWER services, 8GE,	1	\$97.00	\$97.00
Cisco Systems - Part#: CON-SNT-ASA5508K	-	Subtotal	\$569.00
		Shipping	\$12.00
		Total	\$581.00

Additional Comments

Due to industry-wide constraints and fluctuations, SHI reserves the right to change price at any time

The Products offered under this proposal are resold in accordance with the SHI Online Customer Resale Terms and Conditions, unless a separate resale agreement exists between SHI and the Customer.

shi		Pricing Proposal Quotation #: 19188024 Created On: 7/24/2020 Valid Until: 7/30/2020			
Ka	psch TrafficCom USA, Inc.		ie Sales Acc ager	ount	
211 Suite Aust Unite Phor Fax:	an Staehli East 7th St e 800 in, TX 78701 ed States he: 713.494.6329 it: Sean.Staehli@kapsch.net	1501 S Suite 4 Austin, Phone: Fax:	Perez South Mo-Pac Expr 00 TX 78746 512-814-4102 512-814-4103 Paul_Perez@shi.		
All Pi	rices are in US Dollar (USD) Product	Qty	Your Price	Total	
1	Axiom Cisco GLC-LH-SM= Compatible - SFP (mini-GBIC) transceiver module (equivalent to: Cisco GLC-LH-SM=) - GigE - 1000Base-LX, 1000Base-LH - LC - up to 10 km - 1300 nm - for Cisco 38XX; ASA 55XX; Catalyst Compact 2960; Integrated Services Router 11XX Axiom Memory Solutions - Part#: GLC-LH-SM-AX	8	\$52.00	\$416.00	
 Altnet-USA Fiber Jumper Duplex Single Model9/125 (OS1/OS2) LC/UPC to ST/UP PVC 2mm Yel 3 Met Altnet - Part#: S9DLCUSTUV2Y-03 		10	\$13.00	\$130.00	
	*Tax is estimated. Inv	- voice will	Subtotal Shipping *Tax Total include the full and	\$546.00 \$12.00 \$46.04 \$604.04 I final tax due.	

The Products offered under this proposal are resold in accordance with the <u>SHI Online Customer Resale Terms and Conditions</u>, unless a separate resale agreement exists between SHI and the Customer.



Traffic and Parking Control Co., Inc. 5100 West Brown Deer Road Brown Deer, Wisconsin 53223 Phone (800) 236-0112 • TAPCOnet.com • Fax (800) 444-0331

SALES QUOTE

Customer Copy

Number	Q20000534
Date	1/31/2020
Page	1

Sell To Cust. C57865	Kapsch TrafficCom NA, Inc. us_invoices@kapsch.net ***EMAIL ONLY*** DULUTH, GA 30097 USA			Ship To Cust.							
Custom	ner PO #	Expires	Slsp		Terms			Freig	ht	Ship Via	
CTRMA L	JPGRADE	2/29/2020	Alex Perry	Net 6	0 days		PREPAY/ADD)	BEST RATE	
<u>ltem</u>	Des	scription				Quant	ity	<u>UM</u>	Pric	<u>;e</u>	Extension
	** C	TRMA WRONG	WAY PANEL UPGRADE **								
2180-SYSTEN	*P	anel assemblies	to upgrade field installation*	r			3	EA	8,075.6	53	\$24,226.89
2180-CUSTON	Add Add	the 12-24 VDC	converter to 400279				3	EA			
RS10114	pan	el swap to be do	ne by TAPCO				1	EA	6,500.0	00	\$6,500.00
	Lea	d 8-10 Weeks									
	Ema	ect Phone # (262) ail: alex.perry@ta inks! - Alex Perry	apconet.com								

Shipment within Acceptance By	Merchandise	Freight	Тах	Total
Date	\$30,726.89	\$0.00	\$0.00	\$30,726.89
Ву				

All prices are listed in US Dollars (USD)

For terms and conditions, please visit: http://www.tapconet.com/terms-and-conditions



System Integration Agreement

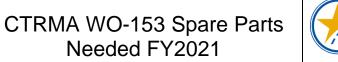
CTRMA Toll Systems Integration



CTRMA WO-153, Spare Parts Needed FY 2021

October 15, 2020





Change Request Description

Request ID	CTRMA-WO-153		
Request Date	10/16/2020		
System Module	Spare Parts		
Change Type	Equipment		
Description			
Spare Parts Nee	ded		
Affected Project			
⊠ 183			
⊠ 290			
🛛 Морас			
SH71			
Affected Require	ments		
N/A Affected System	Processes		
All Processes	FIUCESSES.		
Description of the	- Colution		
Description of the			
		the FY 2021	
	Spare Parts needed for	the FY 2021	
		the FY 2021	
0	Spare Parts needed for		
O Impact	Spare Parts needed for	the FY 2021	Low
0	Spare Parts needed for Image: Spare Parts needed for Image: S		Low
O Impact	Spare Parts needed for High \$139,907.67 Pricing good for 60 Days		

		Created:	04/23/2020	Page:	2 of 4
File: CTRMA WO-153,	CTRMA Spare Parts	Last Mod:	10/16/2020	Version:	2.5



System Integration



	Materials / Equipment	Quantity	Price	0% Markup	Extended Price
1	Spares for 2021	1	\$139,907.67	\$0.00	\$139,907.67
2	0	0	\$0.00	\$0.00	\$0.00
3	0	0	\$0.00	\$0.00	\$0.00
4	0	0	\$0.00	\$0.00	\$0.00
5	0	0	\$0.00	\$0.00	\$0.00
6	0	0	\$0.00	\$0.00	\$0.00
7	0	0	\$0.00	\$0.00	\$0.00
				Total Hardware	\$139,907.67

	Labor		No. of Hours	Hr. Contract Rate	Total
1	Software Engineer		0.00	\$157.59	\$0.00
2	System/Hardware Engineer		0.00	\$172.52	\$0.00
3	Technician		0.00	\$120.90	\$0.00
4	Business Analyst		0.00	\$157.59	\$0.00
5	Database Administrator		0.00	\$224.14	\$0.00
6	Documentation Clerk		0.00	\$161.66	\$0.00
7	Testing Engineer		0.00	\$171.17	\$0.00
8	Network Engineer/Administrator		0.00	\$156.22	\$0.00
9	Project Manager		0.00	\$224.14	\$0.00
		Total Hours:	0.00	Total Labor:	\$0.00

Hours:

Subcontractor	Quantity	Cost	10% Markup	Extended Price
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
	· · · ·	Tota	al Subcontractor	\$0.00

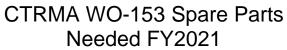
	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total ODCs / Travel \$		

TOTAL PRICE

\$139,907.67

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	3 of 4
File:	CTRMA WO-153, CTRMA Spare Parts	Last Mod:	10/16/2020	Version:	2.5







Client Accep	Client Acceptance:					
Client name						
Date						
Signature						
_						
Kapsch Acce	eptance					
Name						
Date						
Signature						
_						

1 Reference Documents

CTRMA_Spares_ FY_2021 - updated Sept 2020 - revised v1.2.xlsx

2 Document Version History

Version	Created	Created by	Comments
1.0	4/22/2020	Timothy Duke	Initial Submission based on e-mail.
2.0	09/03/2020	Timothy Duke	Updated Pricing
2.1	10/02/2020	Timothy Duke	Updated Format and CTRMA logo
2.2	10/06/2020	Timothy Duke	Updated Pricing
2.3	10/13/2020	Lisa Gauger	Updated pricing & name of reference docs
2.4	10/15/2020	Lisa Gauger	Updated pricing & name of reference docs
2.5	10/16/2020	Lisa Gauger	Updated doc naming details from CO to WO

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	4 of 4
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HICLE IDENTIFICATION - GANTRY - AVI ANTENNAS & CABLING				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
IDentity 6204 Reader, 4 Port, FCC frequency, incl. 24 Volt DC power supply and 1 year limited hardware warranty	Neeleeu	75-0302-3853-1								
w/6B & 6C	Neology	75-0302-3853-1	ea	2	2		2	15,000.00	30,000.00 Neology	
d Extended Warranty pricing on ID 6200 Reader System, 2 Year	Neology	WA-5000-002	ea	2	2		2	1,125.00	2,250.00 Neology	_
ICS - GANTRY - CAMERAS / STROBES / HOUSINGS & CABLING				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
a VISCAM 1000 AIO Camera System, B&W	JAI Pulnix	31016592	ea	10	10	-6	4	6,450.00	25,800.00 JAI	
e I/O Board (Camera) - EIO 302 Assembly (Spare)	JAI Pulnix	20007948	ea	20	20		20	700.00	14,000.00 JAI	
/AS - CAMERA-HOUSING/POE Injector/IR/Brackets				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
a 3430HD - IP67 Fixed/H.264/POE or 12VDC/1080P/30x/Day/Night/Defog/Auto Focus	сони	3432-3000	ea	10	10		10	1,470.00	14,700.00 COHU	
d 4 port POE Injector-Panel Mnt-Supports 802.3af - 44V-58V - 48V to all ports (60W shared supply)	PoE Texas	AT-4-48V60W	ea	5	5		5	76.10	380.51 POE Texas	
/ICS Server				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
a PowerEdge R340	Dell	PER320	ea	2	2		2	2,447,00	4.894.00 SHI	
/R SERVER				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
a PowerEdge R540	Dell	PER540	ea	3pare 1	10101	inventory	1	4,798.00	4,798.00 SHI	
HICLE DETECTION / CLASSIFICATION	Dell	T ERSHO	ca	Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
	Northstar Controls	N224-I-12V		Spare 20		· · · · · · · · · · · · · · · · · · ·	20		6.100.00 Northstar	
	Northstar Controls	N224-I-12V NPS-4	ea	20	-		20	305.00 125.00	250.00 Northstar	
Power Supply for Northstar Rack (Modified for 240VAC) Port Expander - Serial Hub 16 Port - 1U Rack Mount	DeviceMaster	99460-2	ea	2	-		2	804.00	1.608.00 CDW	
k DB9 RS-232 "Y" Cable (DB9 Male to Dual DB9 Female, 8 inch)(28 AWG)	CableWholesale	30D1-27208	ea	2	2		2	5.00	20.00 CableWholesale	NEED DB9 EXTE
6ft Serial Extension Cable, UL, DB9 Male to Female	CableWholesale	10D1-03206	ea	8	4		4	4.00	32.00 CableWholesale	NEED DB9 EATE
te: IDRIS does not work with RocketPort PCI Card - Changed Baseline to DeviceMaster								• • • •		
(I Readers that can be mounted in the cabinet will need a shelf for mounting (i) will be used for DeviceMaster 8 Port a	ind AVI Readers									
¹⁵				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
a Smart-UPS - 6000VA - 200V to 240V OUTPUT / 1 INPUT - 3 RU	Eaton	9PX6K	ea	1	1		1	3,357.65	3,357.65 Eaton	
Extended Battery - 3 RU	Eaton	9PXEBM180RT	ea	3	3		3	883.67	2,651.01 Eaton	
RRIDOR MVD				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
Smartsensor HD	Wavetronix	HS-126	EA	4	4		4	5,480.00	21,920.00 Wavetronix	
Sensor Pigtails (40')			EA	2	2		2	265.00	530.00 "	
Click 301 Terminal Server (Equivalent)	MOXA	NPORT 5130-T	EA	10	10		10	187.00	1,870.00 MOXA	
RRIDOR FIELD NETWORK				Spare	Total	Inventory	GT	UNIT COST	TOTAL COST	
6 port Managed Ethernet Switch/router	MOXA	EDR-810-2GSFP-T	EA	2	2		2	902.00	1,804.00 MOXA	
SFP (SM-GB-LX) TRANSCIEVERS	"	SFP-1GLXLC-T	EA	2	2		2	263.00	526.00 "	
SFP (MM-GB-SX) TRANSCIEVERS	"	SFP-1GLSXLC-T	EA	2	2		2	302.00	604.00 "	
100Base FX Switch (SM - 15 km - ST Connectors) - 4 Copper Ports	NTRON	106FXE2-ST-15-MDR	EA	2	2		2	561.32	1,122.64 NTRON	
Media Convertor - SM - 15km - ST Connectors (100Base)	NTRON	102MCE-ST-15-MDR	EA	2	2		2	319.39	638.78 NTRON	
SM Duplex ST to ST - 1m	Quicktron	810-227-003	ea	2	2		2	15.00	30.00 GreyBar	
g SM Duplex LC to ST - 3m	Quicktron	810-L25-009	ea	2	2		2	8.76	17.52 Zones	
MM Duplex LC to ST - 2m (62.5/125u)	Quicktron	810-L12-006	ea	2	2		2	1.78	3.56 Zones	

139,907.67





Quotation

August 20, 2020

Your quote has been posted online, please review below.

Salesperson Notes: CTRMA RFQ: NTRON quote is ready. My apologies for the delay in getting that back to you.

Quote Number: 10159866	View Quote

Quote Information Valid Until: 10/4/2020 Prepared On: 8/20/2020 Prepared By: Patrick Quaries patrick.quaries@alliedelec.com (512) 219-7171

Billing Information PO Number: CTRMA RFQ: NTRON Account Number: 0010193580

Billing Address Kapsch Trafficcom

2855 Premiere Pkwy STE F Duluth, GA 30097-5201 US Contact Information Requested By: Sean Staehli Phone Number: (512) 596-7238 Email: sean.staehli@kapsch.net

Shipping Information Ship Method: Pending Order Type: Quote

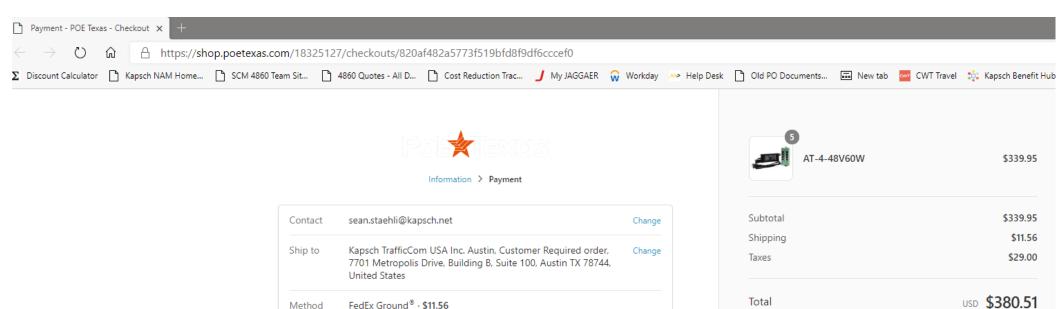
Shipping Address Kapsch Trafficcom Usa, Inc. 7701 Metropolis Dr STE 100 Austin, TX 78744-3126 US

Special Instructions:

Line #		Qty.	Price Per Unit (USD)	Total (USD)
10	Red Lion Controls 6 port (4 10/100BaseTX; 2 100Base FiberUplinks) Industrial Ethernet Switch Mfr. Part #: 106FXE2-ST-15-MDR Allied Stock #: 71122946 Customer Part #: None In-Stock*: 0 Unit: Each	2	\$561.320	\$1,122.64
Non Cancelable No	n Returnable (NCNR) part. Please see	Ferms of N	IČNR.	
20	Red Lion Controls 10/100BaseTX to 100BaseFX Media Converter (Singlemode; ST style connector; 15km) Mfr. Part #: 102MCE-ST-15-MDR Allied Stock #: 71122900 Customer Part #: None In-Stock*: 0 Unit: Each	2	\$319.390	\$638.78
Non Cancelable No	n Returnable (NCNR) part. Please see	Ferms of M	iCNR.	
			Subto	stal†: \$1,761.42

*In Stock quantities reflect available inventory at the time this quote was issued and may change.

+Subtotal is in specified currency and does not include shipping, tax, other handling fees or insurance charges. (a) Aliled Electronics, Inc. 2020 All rights reserved.



Method

From:	Xing Zeng
To:	Staehli Sean
Cc:	MBX KTC Tolling Solution Center Commodity Team
Subject:	RE: CTTMA RFQ: Neology
Date:	Friday, August 14, 2020 1:28:52 PM
Attachments:	image001 ppg

Sean,

Thanks for the enquiry. Please see the quote below.

75-0302-3854-9	6204 4-pt ISO C B 10374 ASTMV6 PS111 T21	4 Port Reader with ISO 6C, 6B, 10374, ASTMV6 AND PS111, Title 21	\$15,000	Each				
for the 2 nd year warranty	or the 2 nd year warranty							
75-0302-5387-8	TOLLING 2ND YEAR EXT. WARRANTY BILL ONLY	Extended warranty for the 2nd year	7.5% of ASP	Each				

Or \$1125 per device.

Sincerely,

Xing (Sean) Zeng VP - Business Development Neology Corporation Mobile: 512-378-0156 xzeng@neology.net

The information contained in this communication is confidential and intended only for the use of the recipient named, and may also be legally privileged. If you are not the intended recipient (named addressee), you are hereby notified that any dissemination, distribution, copying or making use of this communication, or any of its contents, is strictly prohibited. Please notify the sender immediately by e-mail and delete the original message and any copy of it from your computer system. The integrity, security of and absence of viruses in this message cannot be guaranteed on the Internet. The sender therefore does not accept liability for any ersors or omissions in the contents of this message, nor any damage caused, which arise as a result of e-mail transmission.

 From: Staehli Sean <Sean.Staehli@kapsch.net>

 Sent: Friday, August 14, 2020 12:27 PM

 To: Xing Zeng <xzeng@neology.net>

 Cc: MBX KTC Tolling Solution Center Commodity Team <KTC-Tolling_Solution_Center_Commodity_Team@kapsch.net>

 Subject: CTTMA RFQ: Neology

Please quote the below noting this is for a BID, thanks.

IDentity 6204 Reader, 4 Port, FCC frequency, incl. 24 Volt DC power supply and 1 year limited hardware warranty w/6B & 6C	Neology	75-0302-3853-1	ea	2
Extended Warranty pricing on ID 6200 Reader System, 2 Year	Neology	WA-5000-002	ea	2

Sean Staehli Sr. Buyer | Supply Chain Management NA M+1 512:596.7238 sean.staehli@kapsch.net Kapsch TrafficCom USA, Inc. | 7701 Metropolis Dr. / BLDG 14 Suite 100 | Austin, TX 78744

www.kapsch.net / Privacy Statement



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DEAR SEAN STAEHLI,

Thank you for considering CDW for your computing needs. The details of your quote are below. <u>Click</u> <u>here</u> to convert your quote to an order.

QUOTE #	QUOTE DATE	QUOTE REFERENCE	CUSTOMER #	GRAND TOTAL
LPGQ772	8/14/2020	CTRMA EATON	11538577	\$6,504.38

QUOTE DETAILS				
ITEM	QTY	CDW#	UNIT PRICE	EXT. PRICE
Eaton 9PX 9PX6K - UPS - 5.4 kW - 6000 VA Mfg. Part#: 9PX6K UNSPSC: 39121011 Contract: Standard Pricing	1	2872396	\$3,357.65	\$3,357.65
Eaton Extended Battery Module - battery enclosure - lead acid Mfg. Part#: 9PXEBM180RT UNSPSC: 43201601 Contract: Standard Pricing	3	2875772	\$883.67	\$2,651.01
PURCHASER BILLING INFO			SUBTOTAL	\$6,008.66
Billing Address: KAPSCH TRAFFICCOM US CORP			SHIPPING	\$0.00
ACCOUNTS PAYABLE			SALES TAX	\$495.72
2855 PREMIERE PKWY DULUTH, GA 30097-5017 Phone: (703) 885-1976 Payment Terms: NET 30 Days		GRAND TOTAL	\$6,504.38	
DELIVER TO Shipping Address: KAPSCH TRAFFICCOM US CORP SEAN STAEHLI 211 E 7TH ST STE 800 AUSTIN, TX 78701-3366 Shipping Method:			payments to:	
			23 9675-5723	

Need Assistance? CDW SALES CONTACT INFORMATION						
Lesley Asewicz	I	(855) 480-6591	I	leslase@cdw.com		

This quote is subject to CDW's Terms and Conditions of Sales and Service Projects at http://www.cdw.com/content/terms-conditions/product-sales.aspx For more information, contact a CDW account manager

© 2020 CDW LLC, 200 N. Milwaukee Avenue, Vernon Hills, IL 60061 | 800.800.4239

Northstar Controls, LLC 6167 Clark Center Ave Sarasota, FL 34238

QUOTATION

Quote Number: 217 Quote Date: Aug 14, 2020 Page: 1

Voice: 941-926-2454

Quoted To:

Kapsch TrafficCom Transportation - USA 2855 Premier Pkwy Suite F Duluth, GA 30097 USA

Customer ID	Good Thru	Payment Terms	Sales Rep
Kapsch 01	9/13/20	Net 30 Days	

Quantity	Item	Description	Unit Price	Amount
20.00	N 224I	N224-I - Quad Channel Rack Detector Idris	305.00	6,100.00
		Enabled		
2.00	NPS-4 240/12V	NPS4S - 60W Power Supply Unit 240VAC	125.00	250.00
			Subtotal	6,350.00
			Freight	
			Sales Tax	
			TOTAL	6,350.00



Kapsch TrafficCom USA, Inc.

Pricing Proposal Quotation #: 19283893 Created On: 8/14/2020 Valid Until: 8/31/2020

Inside Sales Account Manager

Sean Staehli Paul Perez 1501 South Mo-Pac Expressway 7701 Metropolis Drive Bldg 14, Suite 100 Suite 400 Austin, TX 78744 Austin, TX 78746 United States Phone: 512-814-4102 Fax: 512-814-4103 Email: Paul_Perez@shi.com Phone: (512) 596-7238 Fax: Emait Sean.Staehli@kapsch.net All Prices are in US Dollar (USD) Qty Your Price Product Total 1 1-port RS-422/485 device server 10 \$187.00 \$1,870.00 Moxa Technologies - Part#: NPORT 5130 2 MOXA Industrial Secure Router Switch with 8 10/100BaseT(X) ports 2 1000BaseSFP 1 \$902.00 \$902.00 slots Firewall/NAT -40 to 75C. Moxa Technologies - Part#: EDR-810-2GSFP-T 3 Moxa SFP-1GLXLC-T - SFP (mini-GBIC) transceiver module - GigE - 1000Base-LX -2 \$263.00 \$526.00 LC - up to 10 km - 1310 nm Moxa Technologies - Part#: SFP-1GLXLC-T \$302.00 4 Moxa SFP-1GLSXLC-T - SFP (mini-GBIC) transceiver module - GigE - 1000Base-SLX 2 \$604.00 - LC - up to 2 km Moxa Technologies - Part#: SFP-1GLSXLC-T Subtotal \$3,902.00 Shipping \$50.00 \$3,952.00 Total

Additional Comments

Due to industry-wide constraints and fluctuations, SHI reserves the right to change price at any time

The Products offered under this proposal are resold in accordance with the <u>SHI Online Customer Resale Terms and Conditions</u>, unless a separate resale agreement exists between SHI and the Customer.



Pricing Proposal Quotation #: 19288977 Created On: 8/17/2020 Valid Until: 8/31/2020

Kapsch TrafficCom USA, Inc.

Sean Staehli

7701 Metropolis Drive Bldg 14, Suite 100 Austin, TX 78744 United States Phone: (512) 596-7238 Fax: Email: Sean.Staehli@kapsch.net

Inside Sales Account Manager

Paul Perez 1501 South Mo-Pac Expressway Suite 400 Austin, TX 78746 Phone: 512-814-4102 Fax: 512-814-4103 Email: Paul_Perez@shi.com

	Product	Qty	Your Price	Total
1	Comtrol DeviceMaster Serial Hub - Terminal server - 16 ports - 100Mb LAN, RS-232 - 1U - panel-mountable 024Z - Part#: 99460-2	2	\$804.00	\$1,608.00
2	DB9 Serial Y adapter, DB9 Female to Dual DB9 Male, 8 inch CableWholesale.com - Part#: 30D1-27308	4	\$5.00	\$20.00
3	StarTech.com 2m Black Straight Through DB9 RS232 Serial Cable - DB9 RS232 Serial Extension Cable - Male to Female Cable (MXT1002MBK) - Serial extension cable - DB- 9 (M) to DB-9 (F) - 2 m - black - for P/N: IC232TTL, ICUSB2321F, ICUSB2324, ICUSB2324I, ICU StarTech.com - Part#: MXT1002MBK	8	\$4.00	\$32.00
		_	Subtotal	\$1,660.00
			Shipping Total	\$20.00 \$1.680.00

Additional Comments

Due to industry-wide constraints and fluctuations, SHI reserves the right to change price at any time

The Products offered under this proposal are resold in accordance with the SHI Online Customer Resale Terms and Conditions, unless a separate resale agreement exists between SHI and the Customer.



WINCREST TECHNOLOGIES

Quotation

To: Kapsch Sean Staehli 7701 Metropolis Dr., Bldg 14, Suite 100 Austin, TX 78744 512.596.7238 sean.staehli@kapsch.net DATE: Sean Staehli Re: HD Delivery: 45-60 days ARO Terms: Net 30 WAC Shipping: FOB Destination Quote #: 5205-ks

ltem	Qty	Description	Unit	TOTAL
1	4	Wavetronix SS126 HD Sensor	5,480	21,920
2	2	Sensor Pigtail, 40'	265	530
		Notes:		
		Contractor to verify all quantities		
		Price is for material only		
		Failure to utilize factory certified cable/components will void support/ warranty		
		warranty		
			TOTAL	\$ 22,450

This quotation is good for 30 days. If you have any questions, please call 817-539-2200.

THANK YOU FOR YOUR BUSINESS!



QUOTATION



Send any resulting purchase order to - orders@cohuhd.com

			Senu a	ny resulting	purchase order to - orders@conund.com			
To: Kapsch TrafficCo		Kapsch TrafficCo	om Transportation Revision Date:			8/14/2020		
Address: 211 East 7th Street			et		Quotation Date:	08/14/20		
					Sales Manager	Frank Sneed 817	467 3749	
	City:	Austin			Quotation Validity:	60 DAYS		
S	tate:	TX Zip Code: 78701			Ship Via:	BEST WAY		
	Attn:	Sean Staehli			F.O.B.:	FACTORY/ORIGI	N	
EN	/IAIL:	Sean.Staehli@ka	psch.net		Payment Terms:	NET 30/APPROV	NET 30/APPROVED CREDIT	
Ph	Phone: (512)596-7238		Fax:		*Estimated Lead Time:	6-8 WEEKS ARO		
	Ref:	MBX KTC Tolling	MBX KTC Tolling		Price List Rev.:	Version 2019.3		
					Quote #:	CEDQ27817		
					Application Code:			
					Quoted By:	Frank Sneed 817	467 3749	
					* Actual delivery schedule	will be confirmed u	pon receipt	of order.
Item	Qty	Model			Description		Unit Price	Extended Price
1	10	3432-3000	COHUHD 3430H	HD SERIES IP	57 H.264 FIXED CAMERA SYSTEM,, POE INPUT	POWER, 1080P 30X	\$1,250.00	\$12,500.00
			DAY/NIGHT, DE	FOG, AUTO	FOCUS, EIS AND DIGITAL ZOOM			
2	10	7610203-002	RJ45 IP67 COUPLER, 6MM OR 8.2MM CABLE DIAMETER \$30.00					\$300.00
3	10	7412007-003	POE++ INJECTOR, 70 WATT, UNIVERSAL AC INPUT, TS2 RATED, AC PLUG					\$1,050.00
4	10	8196402-005	UNSHIELDED CAT5E, MS TO RJ45, 5 FT					\$850.00

Total Quotation Value

\$14,700.00

If you have any questions regarding this quotation, please contact Frank Sneed with TechOne Sales LLC by phone at 817-467-3749 or by email at frank@techonesales.com.

NOTES:

1. All cables are custom made to order for length.

2. If customer intends to make their own cables, the multi-pin mating connector that is required to connect customer made cable to the camera is not

Any purchase order or contract as a result of this quotation is subject to CohuHD's Terms & Conditions.

Purchase Orders resulting from this quotation can be sent to orders@cohuhd.com or mail to CohuHD Costar, LLC, 7330 Trade St.,

San Diego, CA 92121. This quotation contains Proprietary & Confidential information and remains the property of the disclosing parties.

Signed for CohuHD Costar, LLC by:

Frank Sneed

Frank Sneed, Sales Representative - Office: (817)467-3749 - e-mail: frank@techonesales.com

TERMS AND CONDITIONS



1 - ACCEPTANCE: Each order is subject to acceptance by CohuHD[™]. No order shall be binding until accepted in writing by an authorized CohuHD employee. The terms and conditions stated herein form the entire terms and conditions between Buyer and CohuHD, Inc., except for written agreements signed by both parties amending these terms and conditions.2 - CANCELLATION OR CHANGE TO CONTRACT: Upon written notice by Buyer of intention to cancel an order, CohuHD will stop work promptly. Cancellation of an accepted order requires CohuHD written consent thereto, including terms that will satisfy all costs incurred and proportionate profit earned by CohuHD. Change orders will take effect upon Buyer's and CohuHD's written agreement on all changes. However, if Buyer requests to delay shipping an order beyond the stated lead time, CohuHD reserves the right to refuse the delay or adjust pricing to then current levels.3 - DELIVERY: Delivery date is the ship date from the factory provided in the order acknowledgement, and is CohuHD's best estimate at time of order placement. CohuHD shall not be liable for any nonperformance, loss, damage, or delay due to war, acts of terrorism, riots, fire, flood, strikes or other labor difficulty, governmental actions, including without limit delivery requirements of a US Government agency rated order, acts of God, acts of the Buyer or its customer, transportation delays, inability to obtain necessary labor or materials from usual sources, or other causes beyond the reasonable control of CohuHD. In such event, CohuHD's performance shall be excused for a commercially reasonable time that is at least the length of time lost due to such delay.4- LIMITED WARRANTY: CohuHD warrants that, at time of delivery, the equipment covered by these terms and conditions will be free from defects in materials and workmanship, provided the equipment or system is installed, operated and maintained in accordance with the Operation and Maintenance manual or such other CohuHD documentation as may be applicable, for any such defect reported to CohuHD as follows: CohuHD RISE 42xxHD series products for three years from date of shipment from CohuHD's factory.CohuHD 34xxHD series products for three years from date of shipment from CohuHD's factory.All other CohuHD manufactured products are warranted for two years from date of shipment from CohuHD factory. Resale items not manufactured by CohuHD are warranted as specified by the original manufacturer.IP67/IP68 enclosures include a lifetime warranty against moisture ingress. CohuHD will clean/repair and re-pressurize returned enclosures.CohuHD will take reasonable action to repair or replace such equipment. Any claim of defect shall be submitted promptly in writing to CohuHD, Attention: Customer Service Department. A Return Material Authorization (RMA) is required for all items returned to CohuHD for repair, and must be provided by CohuHD prior to delivery at the factory. No items will be accepted without an RMA. Information necessary to process an RMA include Buyer contact details, a full product identification (serial number, model number), and description of the claimed defect as well as an explanation of the circumstances and operational conditions and reading at the time of defect. Purchaser shall prepay transportation charges to CohuHD. CohuHD's total liability under this warranty program is limited to the repair or replacement of items purchased pursuant to these terms and conditions which are found to be defective in material and/or workmanship. CohuHD retains the option, in its sole discretion, to make such repair or replacement at Buyer's site, at the CohuHD factory, or via an authorized service center. CohuHD supplied subsystems from OEM manufacturers carry only their manufacturer's warranty, which is passed on to the Buyer. CohuHD will, at the request of the Buyer, assert warranty claims to the manufacturer of such devices, but by so doing does not assume any liability. This warranty shall be void in the event of damage caused by misuse; disassembly; unauthorized repairs; intentional damage; failure to maintain the product in accordance with CohuHD operating manuals; operation of the product beyond its specified operating environment; or damage caused by accidents, lightning, power surges, acts of God, or other natural disasters; or Buyer's failure to timely pay amounts due to CohuHD. Expendable items such as bulbs, fuses, etc., are excluded from coverage under this warranty program.

Buyer shall be responsible for all costs of returning claimed defective products to CohuHD, and CohuHD will be responsible for returning the repaired products or replacements. THIS CONSTITUTES THE SOLE WARRANTY MADE BY COHUHD EITHER EXPRESSED OR IMPLIED. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL COHUHD BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND BUYER'S REMEDIES SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF NONCONFORMING PRODUCTS. 5 -SHIPMENT: Unless expressly prohibited by Buyer, partial shipments shall be accepted. All shipments are made Ex-works (Incoterms 2010)- CohuHD factory unless expressly agreed upon otherwise. Costs of boxing and crating for domestic shipment are included in the quoted price or quoted as a separate line item. When special export or domestic packing is specified, a charge will be made to cover this extra expense. Special packing requirements and method of shipment must be stated in the purchase order. CohuHD takes reasonable care in packing for shipment and selection of carrier. CohuHD assumes no responsibility for delay, breakage, or damage after having made delivery in good order to the carrier. Insurance is the responsibility of the Buyer. Claims for damage are to be made by the Buyer on the carrier; CohuHD will assist in such claims, as requested by the Buyer. Charges & Freight quotations are available. 6 - U.S. TAXES: Unless specifically stated, the prices quoted are exclusive of any federal, state, municipal, or other government tax that may be imposed upon the production, storage, sale, transportation, or use of the products described herein. The Buyer shall pay such taxes applied directly to the sale and levied prior to shipment from CohuHD, or in lieu thereof the Buyer shall provide a tax exemption certificate acceptable to the taxing authorities. Unless a state issued tax exempt certificate is presented at the time of order placement, sales tax will be applied when shipping product to the following states: CA, NY, TX and, WA. Training is not taxable in any state. The U.S. Government is not taxable in any state. If taxable, Buyer shall include the appropriate amount and percentage on the Order for the Goods. 7 - DUTIES: All duties, import or export fees, customs fees, and brokerage charges are the responsibility of the Buyer. Pricing in CohuHD's quotation does not include these charges unless explicitly stated. 8 - RISK OF LOSS: Title to the goods shall pass to Buyer upon shipment from CohuHD's factory. Risk of loss of the goods shall pass to Buyer as soon as the goods are deposited with the carrier. It is specifically agreed that the risk of loss shall not be altered due to a default or breach of these terms and conditions by either party. 9-ASSIGNMENT-DELEGATION: No right or interest in an accepted order shall be assigned by either Buyer or CohuHD without the written consent of the other party No delegation or the performance of any obligation owed by either party shall be effective without the written consent of the other party. 10 - APPLICABLE LAW: The law which shall be applied hereto shall be the Uniform Commercial Code as adopted by the State of California, and as effective and in force on the date of acceptance of Buyer's order by CohuHD. 11 - EXPORT LAWS: The Goods may be subject to U.S. Government export laws and regulations. Buyer shall not export, re-export, or transfer the Goods or Confidential Information received from CohuHD without first obtaining the appropriate US Government approvals, if any. CohuHD will cooperate with Buyer to obtain any export licenses Buyer seeks, but obtaining such licensing shall be the exclusive responsibility of Buyer and CohuHD makes no representation or warranty regarding the issuance of export licenses for the Goods.12 -CASUALTY TO IDENTIFIED GOODS: If the goods ordered by Buyer are destroyed for reasons beyond CohuHD's control prior to the time the risk of loss passes to Buyer, the date of delivery shall be adjusted to accommodate remanufacture of the affected goods. If the loss is partial, Buyer shall have the right to take delivery of that portion of the goods which conform to the contract. NOTES: Quote valid for 60 days unless otherwise noted.

Signed for CohuHD Costar, LLC by: Frank Sneed

Frank Sneed, Sales Representative - Office: (817)467-3749 - e-mail: frank@techonesales.com



1922 WAUKESHA DR PFLUGERVILLE TX 78660-2033 Phone: 512-421-2300 Fax: 512-323-5722

To: KAPSCH TRAFFICCOM TRANSPORTATION NA INDate: 08/14/2020 211 EAST 7TH STREET, STE 800 **Proj Name:** AUSTIN TX 78701-3366 GB Quote #: 0236014293 Attn: Sean Staehli Release Nbr: Phone: 000-000-0000 Purchase Order Nbr: CTRMA Fax: Additional Ref# Email: justin.halliburton@graybar.com Valid From: 08/14/2020 Valid To:

08/14/2020 09/13/2020 JUSTIN HALLIBURTON justin.halliburton@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

Contact:

Email:

Notes		Plus Freigh	t					
Item	Item/Type		Supplier	Catalog Nbr	Description	Price	Unit	Ext.Price
100		2 EA	ORTRONICS	OR-810-227-003	1M ST-ST DPLX 9/125 FIBER CBL	\$15.00	1	\$30.00
GB Par	t #: 2208552	2 UPC #: 88	3481576027					
200		2 EA	ORTRONICS	NOF QUIKTRON		\$8.76	1	\$17.52
Item	Note:	810-L27-009	VS 3M LC ST SM D					
300		2 EA	ORTRONICS	OR-810-L12-006	2M LC-ST DPLX 62.5 FIBERCBL	\$13.78	1	\$27.56
GB Par	t #: 2208547	9 UPC #: 88	3481576092					

Total in USD (Tax not included): \$75.08

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

Subject to the standard terms and conditions set forth in this document. Unless otherwise noted,freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

Page 2 of 2

To learn more about Graybar, visit our website at www.graybar.com

CHARTERCIPCINC COMPARY, INC.
PRECEASAND SHIPMENTS' Unes on heaving equival, precess for groups allely those in official time of alyment, which hall be nade (2.0.8. Higher point, inc., Carphar', and, Harrash

Signed:

GRAYBAR ELECTRIC COMPANY, INC. TERMS AND CONDITIONS OF SALE

To: KAPSCH TRAFFICCOM TRANSPORTATION NA INDate: 08/14/2020 211 EAST 7TH STREET, STE 800 **Proj Name:** AUSTIN TX 78701-3366 GB Quote #: Sean Staehli Attn:

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

0236014293

24-Hour Emergency Phone#: 1-800-GRAYBAR

In Reply Refer To: QUS200137



Attention:	Sean Staehli Roger Prichard	See the possibilities
	Kapsch TrafficCom North America 7701 Metropolis Dr. Building 14 Austin, TX 78744	
Subject:	Fixed Price Quotation for JAI Traffic Solution products in support of your SH290 project.	S
Reference:	Your request	
Gentlemen,		

In response to your request, JAI Traffic Solutions is pleased to submit this fixed price quotation in support of your on-going SH290 project.

The pricing outlined herein shall remain valid until 09/18/20. This Quotation consists of this cover letter along with the enclosed Pricing Summaries and [Terms of Sale and Delivery].

Thank you for your continued support and consideration. Should you have any questions, please feel free to contact Frank Long at (630) 293-9377.

Thank You and Best Regards,

Frank Long

Frank Long Traffic Solutions Manager, USA JAI Traffic Solutions (630) 293-9377

JAI Proprietary Information

The Information contained herein is Proprietary to JAI and shall not be Disclosed to Third Parties Without the Written Permission of JAI, Inc.

Toll-free phone +1 800 445-5444 Phone +1 408 383-0300 Fax +1 408 383-0301

www.jai.com

ISO 9001:2000 certified



SH290 VES System - Pricing Summary: Table 1 - Spare Lane Hardware equipment:

Item	Qty	Model	Description	Unit Price (US \$)	Total Price (US \$)
01	4	VIS-CAM- 1000-AIO	JAI SAP P/N: 31016592 Vehicle Imaging Subsystem, Including: Vehicle Imaging Subsystem, Including: TS-5000EN High Resolution Progressive scan Monochrome Camera in an AIO Housing w/ Filter, BLUE LEDs, 14-50mm Motorized Zoom & Focus, Vari-focal Lens and control, 24VDC/50W heaters and Pan/tilt/Roll mount.	\$6,450	\$25,800
02	20	EIO-303	JAI P/N: 20009593 IO board for the VISCAM 1000 camera(s).	\$700	\$14,000
			Total Hardware Fixed Price		\$39,800

Notes:

- 1. Above prices are for SH290 only and apply to your VES retrofit project ONLY!
- 2. The above pricing shall remain valid for a period of thirty (30) days from the date of this submittal and is conditioned upon the Conditions of Sale outlined below.

JAI Proprietary Information The Information contained herein is Proprietary to JAI and shall not be Disclosed to Third Parties Without the Written Permission of JAI, Inc.

These Terms of Sale and Delivery (the "Standard Delivery Terms") is part of the Agreement and shall apply to any Product sold and any Support provided by JAI to a purchaser (the "Purchaser"). In case of any differences between these Standard Delivery Terms and the general terms of the Purchase Order, these Standard Delivery Terms and any other of JAI's standard terms referred to in the Agreement shall prevail unless otherwise expressly agreed in writing.

1. Definitions:

The following expressions shall have the following meanings:

"Agreement" means JAI's quotation to the Purchaser, the Purchaser's order, JAI's confirmation of the Purchaser's order and any of JAI's standard terms referred to by JAI in its quotation and/or order confirmation.

"Hardware" means all goods acquired by the Purchaser under the Agreement, save for the Software.

"Product" means any Hardware and any Software.

"Software" means any software acquired by the Purchaser under the Agreement.

"Standard Test Procedures" are the latest released test procedures used by JAI production department.

"Support" means any support provided by JAI to the Purchaser according to the Agreement.

2. Product Information and Prices:

Data in product information are binding only to the extent that they are by reference expressly included in the Agreement. Technical documents, quotation or other price information concerning the Product may not be used by Purchaser for any other purpose than for which they were submitted and may not be communicated to a third party.

3. Validity of offers, etc.:

Where no specific term or acceptance of an order is indicated, the term of acceptance shall be 30 days from the date of JAI 's quotation to the Purchaser.

The Agreement shall be deemed legally entered into with binding effect between JAI and the Purchaser as per the date of JAI's confirmation of the Purchaser's order (date of the Agreement).

4. Test:

Prior to delivery of Hardware JAI will conduct a test of the Hardware at JAI's facilities in accordance with JAI 's Standard Test Procedures and specifications applicable. Upon mutual agreement between JAI and Purchaser the test may derogate from the Standard Test Procedures, provided that Purchaser defrays all additional costs in relation to the test.

5. Delivery:

The Product is delivered in accordance with the following terms:

-"FOB" (California Commercial Code), JAI (with respect to deliveries to Purchasers domiciled within the United States),

-"Ex Works" (Incoterms 2000), JAI (with respect to deliveries to Purchasers domiciled outside the United States). Delivery date shall be the date set out in the Purchase Agreement and shall be considered punctual where effected either on or within 30 days after the date of delivery set out in the Agreement. If no delivery date is stated in the order from the Purchaser, then the delivery date set out in JAI's confirmation of the Purchaser's order shall apply.

In the event that a delivery from JAI is delayed, the Customer will without undue delay be informed in writing about a new expected delivery date. Where JAI fails to deliver in time on the expected delivery date, the Purchaser may request in writing that delivery be effected and stipulate a last, reasonable time limit of not less than 14 days. If JAI fails to deliver within the stipulated time limit, and this is not due to circumstances, for which the Purchaser can be held liable, the Purchaser shall be entitled to rescind the Agreement by written notification to JAI with respect to such part of the Product that cannot be put to the intended use.

JAI shall not be liable for any direct or indirect damages that the Purchaser may encounter or suffer as a result of late delivery of the Products and the Purchaser shall in no event be entitled to claim compensation for any default on the part of JAI, irrespective of whether such a default is attributable to JAI.

JAI shall not be liable for defects caused by occurrences after the risk in the Hardware has passed to the Purchaser.

6. Payment Terms:

All prices quoted by JAI are in US Dollars, exclusive of VAT and any other direct or indirect taxes, duties or levies chargeable on the Product. The agreed purchase price shall be payable in cash upon delivery.

In the event of delayed payments an interest of the lesser of (i) two (2) % per commenced month or (ii) the highest rate permitted by applicable law is accrued and JAI is entitled to withhold any other orders placed and/or part deliveries not yet effected until the Purchaser has settled all outstanding amounts with JAI (including interest). If outstanding amounts are not fully settled by Purchaser three months after the due date, JAI may rescind the Agreement immediately and without prior notice.

7. Retention of Title:

The Product shall remain JAI's property until the full purchase price, including interest and costs, as well as all claims with respect to transportation, and any amounts to which JAI is entitled pursuant to the parties' contractual relationship, have been settled in full.

8. Support:

JAI provides support to the Purchaser for all Hardware sold. The support will be provided subject to availability of the support engineer and consists of the following:

- a) Data sheet, product manuals, installation manuals and interface manuals are available from the JAI WEB.
- b) Telephone support within normal office hours regarding technical matters related to operation and maintenance of the Hardware.
- c) Email support is provided based on receipt of a detailed description of the question/problem. A reply can normally be expected within 72 hours.
- d) Unless covered by separate agreement between the Purchaser and JAI (e.g. JAI's Standard Terms of Camera Interface Software Development Support), assistance regarding interface software used in connection with the Hardware is provided on an hourly basis calculated on actual hours used at US \$ 225 per hour subject to availability of our software engineer.
- e) The hourly rate for support engineers is US \$ 175 per hour subject to availability of support engineer.

f) Any travel expenses will be charged at cost plus 15%

JAI reserves the right to change, at any time, all prices in this clause 8 without prior notice to the Purchaser and the prices set forth in this clause 8 are subject to such subsequent changes.

9. LIMITED WARRANTY:

THE LIMITED WARRANTY UNDERTAKEN BY JAI IN THIS CLAUSE 9 IS ONLY MADE IN RESPECT OF THE HARDWARE. JAI 'S LIABILITY IN RESPECT OF SOFTWARE IS INCLUDED IN THE LICENSE TERMS. JAI WARRANTS THAT THE DELIVERED HARDWARE SHALL BE MANUFACTURED IN ACCORDANCE WITH GOOD WORKMANSHIP AND THAT IT HAS PASSED THE TEST IN ACCORDANCE WITH THE APPLICABLE STANDARD TEST PROCEDURES. THIS WAR-RANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SAVE AS EXPRESSLY WARRANTED ABOVE IN THIS CLAUSE 9, THE ENTIRE RISK OF THE QUALITY AND PERFORMANCE OF THE HARDWARE IS WITH THE PURCHASER. JAI SHALL IN NO EVENT BE ACCOUNTABLE FOR DEFECTS OR OTHER MATTERS RELATING TO THE PURCHASER'S OWN IT PLATFORM OR THE INTEGRATION OR INTERACTION BETWEEN THE HARDWARE AND THE PURCHASER'S OWN IT PLATFORM.

THE PURCHASER SHALL EXAMINE THE HARDWARE UPON RECEIPT AND ANY ALLEGED BREACH OF WARRANTY SHALL BE NOTIFIED TO JAI WITHIN 14 DAYS THEREAFTER. THE NOTICE SHALL CONTAIN A DESCRIPTION OF HOW THE ALLEGED BREACH MANIFESTS ITSELF. IF THE PURCHASER FAILS TO NOTIFY JAI IN WRITING WITHIN THE TIME LIMIT SET FORTH ABOVE, HE SHALL FORFEIT HIS RIGHT TO MAKE ANY CLAIM UNDER THIS WARRANTY. REMEDY OF THE DEFECT SHALL TAKE PLACE WITHOUT ANY UNDUE DELAY AT JAI'S PREMISES. TRANSPORT FROM PURCHASER TO JAI SHALL BE AT PURCHASER'S ACCOUNT AND RISK, WHILE TRANSPORTATION FROM JAI TO PURCHASER SHALL BE AT JAI ACCOUNT AND PURCHASER'S RISK.

IF JAI FAILS TO TAKE CORRECTIVE MEASURES WITHIN A REASONABLE PERIOD OF TIME AFTER HAVING RECEIVED THE DEFECT PARTS, THE PURCHASER MAY BY WRITTEN NOTICE REQUIRE JAI TO DO SO WITHIN A REASONABLE TIME NOT LESS THAN 14 DAYS.

THE SOLE LIABILITY OF JAI FOR BREACH OF THIS WARRANTY SHALL BE THE REPLACEMENT OF NON-PERFORM-ING PARTS OF THE HARDWARE WITHIN A REASONABLE TIME. JAI IS ONLY LIABLE FOR DEFECTS, WHICH AP-PEARS UNDER THE CONDITIONS OF OPERATION SET OUT IN DOCUMENTATION PROVIDED BY JAI TO PURCHASER AND UNDER PROPER USE OF THE HARDWARE.

JAI'S LIABILITY DOES NOT COVER ORDINARY WEAR AND TEAR OR DETERIORATION. THE WARRANTY IN THIS CLAUSE 9 EXPIRES 12 MONTHS AFTER THE DELIVERY OF THE HARDWARE.

10. GENERAL LIMITATIONS:

OF LIABILITY JAI SHALL IN NO EVENT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING, DIRECTLY OR INDIRECTLY, FROM THE USE OF THE PRODUCT, INCLUDING ANY PRODUCT LIABILITY, AND/OR FOR ANY INDIRECT OR CONSE-QUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING WITHOUT LIMITATION LOSS OF DATA OR DATA BEING RENDERED INACCURATE (INCLUDING WITHOUT LIMITATION IN THE EVENT OF (I) FOUL WEATHER CONDI-TIONS (E.G. FOG, RAIN OR SNOW), (II) POWER CUT AND (III) FAILURE TO COMMUNICATE WITH GPS SATELLITE), LOSS OF PROFITS, LOSS OF INTEREST OR OTHER LOSSES SUSTAINED BY THE PURCHASER OR THIRD PARTIES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT.

THE RESTRICTIONS IN JAI'S LIABILITY PROVIDED FOR IN THIS CLAUSE 10 SHALL NOT APPLY IN THE EVENT OF GROSS NEGLIGENCE ON JAI'S PART. HOWEVER, JAI AGGREGATE LIABILITY WHETHER IN CONTRACT, WAR-RANTY, TORT OR OTHERWISE SHALL IN NO EVENT EXCEED THE AMOUNT PAID BY THE PURCHASER TO JAI PURSUANT TO THE AGREEMENT DURING THE 12 MONTHS PRIOR TO THE PURCHASER BECOMING AWARE OF THE BASIS FOR A CLAIM AGAINST JAI.

11. Indemnification:

The Purchaser shall indemnify and hold harmless JAI and its affiliates, officers, directors, employees and shareholders against and from all claims, demands, suits, costs (including reasonable attorneys' fees), and actions in each case with respect to damages to property or injuries to persons that may be sustained by any third party and that are asserted against such an indemnified party on the basis of a defect in the manufacture or supply of the Products.

12. Force Majeure:

JAI shall not be liable for the following causes or events where such causes or events hinder the performance of the Agreement or make the performance thereof unreasonably onerous to JAI: Industrial disputes and any other cause or event beyond JAI's control, including, but not limited to, fire, war, mobilizations or calling up for military service to a similar extent, riots, commotions, requisitions, confiscation, exchange control restrictions, transport hindrances, power restrictions, embargoes on imports or exports and defects or delays in deliveries on the part of subcontractors caused and labour disputes.

Notwithstanding the above, either party shall be entitled to terminate the Agreement by notice in writing to the other party if performance of the Agreement is delayed more than four (4) months by reasons of the force majeure as described in this clause 12.

13. Export Control:

Purchaser acknowledges that the Products are subject to regulation by agencies of the U.S. Government, which prohibits export or diversion of certain products and technology to certain countries. Any and all obligations of JAI to provide the Products or technical assistance related to the Products is subject in all respects to such United States laws and regulations as shall from time to time govern the sale and delivery of products abroad by persons subject to the jurisdiction of the United States. Purchaser will comply with the Export Administration Regulations and other United States laws and regulations governing exports in effect from time to time and, without limiting the above, Purchaser shall not export or re-export, or otherwise provide, the Products or any technical data related thereto to any country, or to a national of any country, as to which the U.S. Government has placed an embargo against the shipment of Products.

14. General:

Entire Agreement: These Standard Delivery Terms and the documents referred to herein, including without limitation the Agreement (together the "Transaction Documents") constitute the entire agreement and understanding between JAI and Purchaser with respect to the subject matter of the Transaction Documents and supersedes all prior agreements and understandings, whether oral or written.

Amendment: Unless otherwise expressly stated herein, these Standard Delivery Terms may not be amended without the written consent of both parties.

Waiver: The waiver or failure of either party to exercise any right provided for in these Standard Delivery Terms shall not be deemed a waiver of any further tight hereunder.

Assignment: Neither party may assign its rights or obligations under these Standard Delivery Terms except in the context of a merger, sale of substantially all assets or like transaction.

15. Applicable Law and Venue:

The Agreement (including for the avoidance of doubt these Standard Delivery Terms between JAI and the Purchaser) shall be governed by the laws of the State of California, without regard to its conflicts of laws principles. Any disputes or claims arising out of or in connection with the Agreement shall be heard exclusively in the federal and state courts located in Santa Clara County, California. The losing party in a dispute shall pay the prevailing party's reasonable legal fees.





Kapsch TrafficCom USA, Inc.

Pricing Proposal Quotation #: 19332748 Created On: 8/26/2020 Valid Until: 8/31/2020

Inside Sales Account Manager

770 Bldg Aus Unit Pho Fax	an Staehli 1 Metropolis Drive 9 14, Suite 100 tin, TX 78744 ed States ne: (512) 596-7238 : ai: Sean.Staehli@kapsch.net	Paul 1501 S Suite 4 Austin, Phone: Fax: Email:	ressway .com	
AI P	rices are in US Dollar (USD)			
	Product	Qty	Your Price	Total
1	PowerEdge R540 Server - Silver 4214 x 2 - 64GB - 1.8TB 10K x 4 - 3 Year ProSupport Dell - Part#: 210-ALZH	1	\$4,798.00	\$4,798.00
		-	Subtotal Shipping	\$4,798.00 \$125.00
			Total	\$4,923.00

Additional Comments

Due to industry-wide constraints and fluctuations, SHI reserves the right to change price at any time

PowerEdge R540 Server 210-ALZH - 1 -PowerEdge R540 MLK Motherboard, V2 329-BFBK - 1 -No Trusted Platform Module 461-AADZ - 1 -3.5 Chassis with up to 8 Hot Plug Hard Drives 321-BCWW - 1 -Internal PERC 405-AAOM - 1 -PowerEdge R540 Shipping 340-BSID - 1 -PowerEdge R540 Shipping Material, V2 340-COSN - 1 -PowerEdge R540 CE, CCC, BIS Marking 389-DSXI - 1 -Intel Xeon Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400 338-BSDL - 1 -Intel Xeon Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400 338-BSDL - 1 -Additional Processor Selected 379-BDCO - 1 -Thank you for Choosing Dell 555-BBNG - 1 -2666MT/s RDIMMs 370-ADNU - 1 -Performance Optimized 370-AAIP - 1 -RAID 10 780-BCDQ - 1 -PERC H740P RAID Controller, LP Adapter 405-AAML - 1 -No Operating System 619-ABVR - 1 iDRAC9,Enterprise 385-BBKT - 1 iDRAC Group Manager, Enabled 379-BCQV - 1 iDRAC, Factory Generated Password 379-BCSF - 1 -3xLP,2 CPU No Riser Configuration 330-BBIT - 1 -On-Board LOM 542-BBBP - 1 -

No Optical Drive Internal for 8 HD Chassis 429-AAQN - 1 -Dual, Hot-Plug, Redundant Power Supply (1+1), 750W 450-AJRO - 1 -PowerEdge 2U Standard Bezel 325-BCHU - 1 -Dell EMC Luggage Tag 350-BBLI - 1 -No Quick Sync 350-BBKU - 1 -Performance BIOS Settings 384-BBBL - 1 -UEFI BIOS Boot Mode with GPT Partition 800-BBDM - 1 -ReadyRails Sliding Rails With Cable Management Arm 770-BBBR - 1 -No Systems Documentation, No OpenManage DVD Kit 631-AACK - 1 -US Order 332-1286 - 1 -Basic Next Business Day 36 Months 709-BBFM - 1 -On-Site Installation Declined 900-9997 - 1 -32GB RDIMM 2666MT/s Dual Rank 370-ADNF - 2 -1.8TB 10K RPM SAS 12Gbps 512e 2.5in Hot-plug Hard Drive, 3.5in HYB CARR 400-ASHM - 4 -No Media Required 421-5736 - 1 -C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord, North America 492-BBDI - 2

The Products offered under this proposal are resold in accordance with the <u>SHI Online Customer Resale Terms and Conditions</u>, unless a separate resale agreement exists between SHI and the Customer.



Kapsch TrafficCom USA, Inc.

Pricing Proposal Quotation #: 19332909 Created On: 8/26/2020 Valid Until: 8/30/2020

Inside Sales Account Manager

Sean Staehli Paul Perez 1501 South Mo-Pac Expressway 7701 Metropolis Drive Bldg 14, Suite 100 Suite 400 Austin, TX 78744 Austin, TX 78746 United States Phone: 512-814-4102 Fax: 512-814-4103 Phone: (512) 596-7238 Email: Paul_Perez@shi.com Fax: Email: Sean.Staehli@kapsch.net All Prices are in US Dollar (USD) Product Qty Your Price Total 1 PowerEdge R340 Server - Xeon E-2244G - 16GB - 4TB 7.2K x 2 - 3 Year ProSupport \$2,447.00 \$2,447.00 1 Dell - Part#: 210-ALZH Note: Intel Xeon E-2144G is no longer available I quoted the E-2244 \$2,447.00 Subtotal Shipping \$125.00 Total \$2,572.00

Additional Comments

Due to industry-wide constraints and fluctuations, SHI reserves the right to change price at any time

PowerEdge R540 Server 210-ALZH - 1 -PowerEdge R540 MLK Motherboard, V2 329-BFBK - 1 -No Trusted Platform Module 461-AADZ - 1 -3.5 Chassis with up to 8 Hot Plug Hard Drives 321-BCWW - 1 -Internal PERC 405-AAOM - 1 -PowerEdge R540 Shipping 340-BSID - 1 -PowerEdge R540 Shipping Material, V2 340-COSN - 1 -PowerEdge R540 CE, CCC, BIS Marking 389-DSXI - 1 -Intel Xeon Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400 338-BSDL - 1 -Intel Xeon Silver 4214 2.2G, 12C/24T, 9.8GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400 338-BSDL - 1 -Additional Processor Selected 379-BDCO - 1 -Thank you for Choosing Dell 555-BBNG - 1 -2666MT/s RDIMMs 370-ADNU - 1 -Performance Optimized 370-AAIP - 1 -RAID 10 780-BCDQ - 1 -PERC H740P RAID Controller, LP Adapter 405-AAML - 1 -No Operating System 619-ABVR - 1 iDRAC9,Enterprise 385-BBKT - 1 iDRAC Group Manager, Enabled 379-BCQV - 1 iDRAC, Factory Generated Password 379-BCSF - 1 -3xLP,2 CPU No Riser Configuration 330-BBIT - 1 -On-Board LOM 542-BBBP - 1 -

No Optical Drive Internal for 8 HD Chassis 429-AAQN - 1 -Dual, Hot-Plug, Redundant Power Supply (1+1), 750W 450-AJRO - 1 -PowerEdge 2U Standard Bezel 325-BCHU - 1 -Dell EMC Luggage Tag 350-BBLI - 1 -No Quick Sync 350-BBKU - 1 -Performance BIOS Settings 384-BBBL - 1 -UEFI BIOS Boot Mode with GPT Partition 800-BBDM - 1 -ReadyRails Sliding Rails With Cable Management Arm 770-BBBR - 1 -No Systems Documentation, No OpenManage DVD Kit 631-AACK - 1 -US Order 332-1286 - 1 -Basic Next Business Day 36 Months 709-BBFM - 1 -On-Site Installation Declined 900-9997 - 1 -32GB RDIMM 2666MT/s Dual Rank 370-ADNF - 2 -1.8TB 10K RPM SAS 12Gbps 512e 2.5in Hot-plug Hard Drive, 3.5in HYB CARR 400-ASHM - 4 -No Media Required 421-5736 - 1 -C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord, North America 492-BBDI - 2

The Products offered under this proposal are resold in accordance with the <u>SHI Online Customer Resale Terms and Conditions</u>, unless a separate resale agreement exists between SHI and the Customer.



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO-155, 183A DVAS Camera Upgrade

October 16, 2020



Upgrade_V2.4.docx



Change Request Description

Request ID	CTRMA-WO-155		
Request Date	10/16/2020		
System Module	183A DVAS Camera		
Change Type	Equipment		
Description			
Replace Aging D	VAS cameras		
Affected Project			
⊠ 183			
□ 290			
🗌 Морас			
□ SH71			
Affected Require	ments		
N/A			
Affected System	Processes:		
DVAS System			
Description of the			
Description of the	Upgrade aging DVAS can MOT for the DVAS Came normal Preventive Mainte	era replacement is to be enance Closure.	C C
Description of the	Upgrade aging DVAS can MOT for the DVAS Came normal Preventive Mainte Kapsch will provide a Pro	era replacement is to be enance Closure.	completed before
Description of the	Upgrade aging DVAS can MOT for the DVAS Came normal Preventive Mainte Kapsch will provide a Pro	era replacement is to be enance Closure.	C C
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Description of the O O O O Impact	Upgrade aging DVAS can MOT for the DVAS Came normal Preventive Mainte Kapsch will provide a Pro June 2021	era replacement is to be enance Closure. nject Schedule. Must be o	completed before

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	2 of 4
File:	CTRMA WO-155, 183A DVAS Camera Upgrade	Last Mod:	10/16/2020	Version:	2.4





WO-CTRMA-155-183A DVAS Camera

Upgrade_V2.4.docx

	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	COHUHD 3430HD	44	\$55,000.00	\$5,500.00	\$60,500.00
2	RJ45 IP67 COUPLER	44	\$1,320.00	\$132.00	\$1,452.00
3	UNSHIELDED CAT5E, MS TO RJ45, 5 FT	44	\$3,740.00	\$374.00	\$4,114.00
4	3430HD WALL MOUNT BRACKET	44	\$1,100.00	\$110.00	\$1,210.00
5	CAMERA BRACKET	44	\$2,181.08	\$218.11	\$2,399.19
6	4 port POE Injector-Panel	10	\$588.00	\$58.80	\$646.80
7	Mounting Hardware	1	\$501.74	\$50.17	\$551.91
				Total Hardware	\$70,873.90

	Labor		No. of Hours	Hr. Contract Rate	Total
1	Software Engineer		0.00	\$157.59	\$0.00
2	System/Hardware Engineer		10.00	\$172.52	\$1,725.20
3	Technician		44.00	\$120.90	\$5,319.60
4	Business Analyst		0.00	\$157.59	\$0.00
5	Database Administrator		0.00	\$224.14	\$0.00
6	Documentation Clerk		10.00	\$161.66	\$1,616.60
7	Testing Engineer		0.00	\$171.17	\$0.00
8	Network Engineer/Administrator		0.00	\$156.22	\$0.00
9	Project Manager		12.00	\$224.14	\$2,689.68
		Total Hours:	76.00	Total Labor:	\$11,351.08

Subcontractor	Quantity	Cost	10% Markup	Extended Price
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
	· · · · ·	Tota	al Subcontractor	\$0.00

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total OD	Cs / Travel	\$0.00

\$82,224.98

Timothy Duke CTRMA WO-155, 183A DVAS Camera Upgrade 04/23/2020 10/16/2020 Prepared by: 3 of 4 Created: Page: File: Last Mod: Version: 2.4

TOTAL PRICE



WO-CTRMA-155-183A DVAS Camera Upgrade_V2.4.docx



Client Accep	otance:	
Client name		
Date		
Signature		
-		
Kapsch Acce	eptance	
Name		
Date		
Signature		
-		

1 Reference Documents

WO 155 183A DVAS Mounting Hardware.xlsx

2 Document Version History

Version	Created	Created by	Comments
1.0	04/23/2020	Timothy Duke	Initial Submission based on e-mail.
2.0	09/09/2020	Timothy Duke	Updated Pricing
2.1	10/02/2020	Timothy Duke	Updated CTRMA logo
2.2	10/06/2020	Timothy Duke	Update to define MOT
2.3	10/09/2020	Lisa Gauger	Updated 4-port POE pricing and overall pricing to match.
2.4	10/16/2020	Lisa Gauger	Updated doc naming details from CO to WO

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	4 of 4
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Amtex Precision Fabrication 3920 Bahler Avenue Manvel, TX 77578-2823 United States of America

Ph: 281.489.7042

ID: 25344

Fax: 281.489.1992

Quote

Date: 08-Sep-20

Quote To

Kapsch TrafficCom Transportation NA, Inc. 7701 Metropolis Dr. Blg. 14 Suite 100 Austin, TX 78744 United States of America Tim Duke Kapsch TrafficCom Transportation NA, Inc. 7701 Metropolis Dr. Blg. 14 Suite 100 Austin, TX 78744 United States of America

Ph: 713-920-6838

То

Ph: 713-920-6838

Terms		Ship Via		Salesperson
Net 45		Best Way		AS
Quantity	Description	•	Unit Price	Amount
	*** EMAIL ALL PURCHASE ORDERS TO an	ntexpo@amtexprecision.com ***		
	Line: 001 Part: CAMERA BRACKET CAMERA BRACKET FAB PER DRAWING RECIEVED 9/4/20 MATERIAL = .1875" 316 SS NO FINISH TOLERANCE +/03 CROSS PATTERN SLOTS	Expiration Date: 23-Sep-20 Rev:		
44	еа		\$49.57	\$2,181.08
	LEAD TIME 2-3 WEEKS THANK YOU FOR THE INQUIRY! WE APPRECIATE THE OPPORTUNITY TO	QUOTE!	Total:	\$2,181.08

)
AT-4-48V60W
🔮 (-\$135.98)

\$679.90 \$543.92

Total	USD \$588.80
Taxes (estimated)	\$44.88
Shipping 🕜	Calculated at next step
Subtotal	\$543.92



QUOTATION



Send any resulting purchase order to - orders@cohuhd.com

			Ochu ur	ly resulting purcha	ise order to - orders@conund.com			
	To:	Kapsch TrafficCo	om		Revision Date:	9/8/2020		
Add	ress:	6020 Ambler Dr	ive		Quotation Date:	09/08/20		
					Sales Manager	Frank Sneed 817	467 3749	
	City:	Mississauga			Quotation Validity:	60 DAYS		
S	tate:	ON	Zip Code:	L4W 2P1	Ship Via:	BEST WAY		
	Attn:	Rolando Sevilla			F.O.B.:	FACTORY/ORIGI	N	
EN	/IAIL:	rolando.sevilla@	<pre>% pkapsch.net</pre>		Payment Terms:	NET 30/APPROV	ED CREDIT	
Ph	one:	(905)624-3020	Fax:		*Estimated Lead Time:	6-8 WEEKS ARO		
	Ref:	CTMRA			Price List Rev.:	Version 2019.3		
		•••••			Quote #:	CEDQ27895		
					Application Code:			
					Quoted By:	Frank Sneed 817	467 3749	
					* Actual delivery schedule	will be confirmed u	pon receipt	of order.
Item	Qty	Model			Description		Unit Price	Extended Price
1	44	3432-3000	COHUHD 3430H	ID SERIES IP67 H.264	4 FIXED CAMERA SYSTEM,, POE INPUT	POWER, 1080P 30X	\$1,250.00	\$55,000.00
			DAY/NIGHT, DEFOG, AUTO FOCUS, EIS AND DIGITAL ZOOM					
2	44	7610203-002	RJ45 IP67 COUPLER, 6MM OR 8.2MM CABLE DIAMETER \$30.00 \$1,320.00			\$1,320.00		
3	44	8196402-005	UNSHIELDED CA	T5E, MS TO RJ45, 5	FT		\$85.00	\$3,740.00
4	44	7412011-002	3430HD WALL N	/IOUNT BRACKET			\$25.00	\$1,100.00

Total Quotation Value

\$61,160.00

If you have any questions regarding this quotation, please contact Frank Sneed with TechOne Sales LLC by phone at 817-467-3749 or by email at frank@techonesales.com.

NOTES:

1. All cables are custom made to order for length.

2. If customer intends to make their own cables, the multi-pin mating connector that is required to connect customer made cable to the camera is not

Any purchase order or contract as a result of this quotation is subject to CohuHD's Terms & Conditions.

Purchase Orders resulting from this quotation can be sent to orders@cohuhd.com or mail to CohuHD Costar, LLC, 7330 Trade St.,

San Diego, CA 92121. This quotation contains Proprietary & Confidential information and remains the property of the disclosing parties.

Signed for CohuHD Costar, LLC by:

Frank Sneed

Frank Sneed, Sales Representative - Office: (817)467-3749 - e-mail: frank@techonesales.com

TERMS AND CONDITIONS



1 - ACCEPTANCE: Each order is subject to acceptance by CohuHD[™]. No order shall be binding until accepted in writing by an authorized CohuHD employee. The terms and conditions stated herein form the entire terms and conditions between Buyer and CohuHD, Inc., except for written agreements signed by both parties amending these terms and conditions.2 - CANCELLATION OR CHANGE TO CONTRACT: Upon written notice by Buyer of intention to cancel an order, CohuHD will stop work promptly. Cancellation of an accepted order requires CohuHD written consent thereto, including terms that will satisfy all costs incurred and proportionate profit earned by CohuHD. Change orders will take effect upon Buyer's and CohuHD's written agreement on all changes. However, if Buyer requests to delay shipping an order beyond the stated lead time, CohuHD reserves the right to refuse the delay or adjust pricing to then current levels.3 - DELIVERY: Delivery date is the ship date from the factory provided in the order acknowledgement, and is CohuHD's best estimate at time of order placement. CohuHD shall not be liable for any nonperformance, loss, damage, or delay due to war, acts of terrorism, riots, fire, flood, strikes or other labor difficulty, governmental actions, including without limit delivery requirements of a US Government agency rated order, acts of God, acts of the Buyer or its customer, transportation delays, inability to obtain necessary labor or materials from usual sources, or other causes beyond the reasonable control of CohuHD. In such event, CohuHD's performance shall be excused for a commercially reasonable time that is at least the length of time lost due to such delay.4- LIMITED WARRANTY: CohuHD warrants that, at time of delivery, the equipment covered by these terms and conditions will be free from defects in materials and workmanship, provided the equipment or system is installed, operated and maintained in accordance with the Operation and Maintenance manual or such other CohuHD documentation as may be applicable, for any such defect reported to CohuHD as follows: CohuHD RISE 42xxHD series products for three years from date of shipment from CohuHD's factory.CohuHD 34xxHD series products for three years from date of shipment from CohuHD's factory.All other CohuHD manufactured products are warranted for two years from date of shipment from CohuHD factory. Resale items not manufactured by CohuHD are warranted as specified by the original manufacturer.IP67/IP68 enclosures include a lifetime warranty against moisture ingress. CohuHD will clean/repair and re-pressurize returned enclosures.CohuHD will take reasonable action to repair or replace such equipment. Any claim of defect shall be submitted promptly in writing to CohuHD, Attention: Customer Service Department. A Return Material Authorization (RMA) is required for all items returned to CohuHD for repair, and must be provided by CohuHD prior to delivery at the factory. No items will be accepted without an RMA. Information necessary to process an RMA include Buyer contact details, a full product identification (serial number, model number), and description of the claimed defect as well as an explanation of the circumstances and operational conditions and reading at the time of defect. Purchaser shall prepay transportation charges to CohuHD. CohuHD's total liability under this warranty program is limited to the repair or replacement of items purchased pursuant to these terms and conditions which are found to be defective in material and/or workmanship. CohuHD retains the option, in its sole discretion, to make such repair or replacement at Buyer's site, at the CohuHD factory, or via an authorized service center. CohuHD supplied subsystems from OEM manufacturers carry only their manufacturer's warranty, which is passed on to the Buyer. CohuHD will, at the request of the Buyer, assert warranty claims to the manufacturer of such devices, but by so doing does not assume any liability. This warranty shall be void in the event of damage caused by misuse; disassembly; unauthorized repairs; intentional damage; failure to maintain the product in accordance with CohuHD operating manuals; operation of the product beyond its specified operating environment; or damage caused by accidents, lightning, power surges, acts of God, or other natural disasters; or Buyer's failure to timely pay amounts due to CohuHD. Expendable items such as bulbs, fuses, etc., are excluded from coverage under this warranty program.

Buyer shall be responsible for all costs of returning claimed defective products to CohuHD, and CohuHD will be responsible for returning the repaired products or replacements. THIS CONSTITUTES THE SOLE WARRANTY MADE BY COHUHD EITHER EXPRESSED OR IMPLIED. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL COHUHD BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND BUYER'S REMEDIES SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF NONCONFORMING PRODUCTS. 5 -SHIPMENT: Unless expressly prohibited by Buyer, partial shipments shall be accepted. All shipments are made Ex-works (Incoterms 2010)- CohuHD factory unless expressly agreed upon otherwise. Costs of boxing and crating for domestic shipment are included in the quoted price or quoted as a separate line item. When special export or domestic packing is specified, a charge will be made to cover this extra expense. Special packing requirements and method of shipment must be stated in the purchase order. CohuHD takes reasonable care in packing for shipment and selection of carrier. CohuHD assumes no responsibility for delay, breakage, or damage after having made delivery in good order to the carrier. Insurance is the responsibility of the Buyer. Claims for damage are to be made by the Buyer on the carrier; CohuHD will assist in such claims, as requested by the Buyer. Charges & Freight quotations are available. 6 - U.S. TAXES: Unless specifically stated, the prices quoted are exclusive of any federal, state, municipal, or other government tax that may be imposed upon the production, storage, sale, transportation, or use of the products described herein. The Buyer shall pay such taxes applied directly to the sale and levied prior to shipment from CohuHD, or in lieu thereof the Buyer shall provide a tax exemption certificate acceptable to the taxing authorities. Unless a state issued tax exempt certificate is presented at the time of order placement, sales tax will be applied when shipping product to the following states: CA, NY, TX and, WA. Training is not taxable in any state. The U.S. Government is not taxable in any state. If taxable, Buyer shall include the appropriate amount and percentage on the Order for the Goods. 7 - DUTIES: All duties, import or export fees, customs fees, and brokerage charges are the responsibility of the Buyer. Pricing in CohuHD's quotation does not include these charges unless explicitly stated. 8 - RISK OF LOSS: Title to the goods shall pass to Buyer upon shipment from CohuHD's factory. Risk of loss of the goods shall pass to Buyer as soon as the goods are deposited with the carrier. It is specifically agreed that the risk of loss shall not be altered due to a default or breach of these terms and conditions by either party. 9-ASSIGNMENT-DELEGATION: No right or interest in an accepted order shall be assigned by either Buyer or CohuHD without the written consent of the other party No delegation or the performance of any obligation owed by either party shall be effective without the written consent of the other party. 10 - APPLICABLE LAW: The law which shall be applied hereto shall be the Uniform Commercial Code as adopted by the State of California, and as effective and in force on the date of acceptance of Buyer's order by CohuHD. 11 - EXPORT LAWS: The Goods may be subject to U.S. Government export laws and regulations. Buyer shall not export, re-export, or transfer the Goods or Confidential Information received from CohuHD without first obtaining the appropriate US Government approvals, if any. CohuHD will cooperate with Buyer to obtain any export licenses Buyer seeks, but obtaining such licensing shall be the exclusive responsibility of Buyer and CohuHD makes no representation or warranty regarding the issuance of export licenses for the Goods.12 -CASUALTY TO IDENTIFIED GOODS: If the goods ordered by Buyer are destroyed for reasons beyond CohuHD's control prior to the time the risk of loss passes to Buyer, the date of delivery shall be adjusted to accommodate remanufacture of the affected goods. If the loss is partial, Buyer shall have the right to take delivery of that portion of the goods which conform to the contract. NOTES: Quote valid for 60 days unless otherwise noted.

Signed for CohuHD Costar, LLC by: Frank Sneed

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McMASTER-CARR.

404-346-7000 404-349-9091 (fax) atl.sales@mcmaster.com

Kapsch Trafficom U S A Inc 7701 Metropolis Dr Bldg 14 Austin TX 78744 Quote 16285 Date 8/14/20

Line	e	Product	Quantity	Available	Price	Total
1	8862T29	Galvanized Steel U-Bolt, 3/8"-16 Thread Size, 2-7/16" ID, packs of 1	100 packs	today	3.01 per pack	301.00
2	98970A131	Hot-Dipped Galvanized Steel Washer, USS, 3/8" Screw Size, 0.438" ID, 1" OD, packs of 100	2 packs	today	6.97 per pack	13.94
3	95160A220	Hot-Dipped Galvanized Steel Split Lock Washer for 3/8" Screw Size, 0.385" ID, 0.705" OD, packs of 100	2 packs	today	10.96 per pack	21.92
4	90371A031	Low-Strength Steel Hex Nut, Grade 2, Hot-Dipped Galvanized, 3/8"-16 Thread Size, packs of 100	4 packs	today	10.81 per pack	43.24
5	93190A546	Super-Corrosion-Resistant 316 Stainless Steel Hex Head Screw, 1/4"-20 Thread Size, 1-1/2" Long, Fully Threaded, packs of 10	20 packs	today	4.23 per pack	84.60
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8	90371A029	Low-Strength Steel Hex Nut, Grade 2, Hot-Dipped Galvanized, 1/4"-20 Thread Size, packs of 100	4 packs	today	5.40 per pack	21.60

Merchandise \$501.74

Notes

Applicable shipping charges and tax will be added.

Prices good through 9/13/20.

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

McMaster-Carr Supply Company

Quotation



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO-156, 290E DVAS Camera Upgrade

October 16, 2020



WO-CTRMA-156-290E DVAS Camera

Upgrade_v2.4.docx

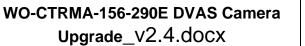


Change Request Description

Request ID	CTRMA-WO-156					
Request Date	10/16/2020					
System Module	290E DVAS Camera					
Change Type	Equipment					
Description						
Replace aging D	/AS Cameras					
Affected Project						
□ 183						
⊠ 290						
🗌 Морас						
□ SH71						
Affected Require	nents					
N/A						
	Affected System Processes:					
DVAS System						
Description of the	Solution					
Description of the						
Description of the	Solution Upgrade aging DVAS cameras on 290E MOT for the DVAS Camera replacement is to be included during normal Preventive Maintenance Closure. Kapsch will provide a Project Schedule. Must be completed before					
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Description of the O O O D D D D D D D D D D D D D	Solution Upgrade aging DVAS cameras on 290E MOT for the DVAS Camera replacement is to be included during normal Preventive Maintenance Closure. Kapsch will provide a Project Schedule. Must be completed before June 2021					

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	2 of 4
File:	CTRMA WO-156, 290E DVAS Camera Upgrade	Last Mod:	10/16/2020	Version:	2.4







	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	COHUHD 3430HD	52	\$65,000.00	\$6,500.00	\$71,500.00
2	RJ45 IP67 COUPLER	52	\$1,560.00	\$156.00	\$1,716.00
3	UNSHIELDED CAT5E, MS TO RJ45, 5 FT	52	\$4,420.00	\$442.00	\$4,862.00
4	3430HD WALL MOUNT BRACKET	52	\$1,300.00	\$130.00	\$1,430.00
5	CAMERA BRACKET	52	\$2,554.76	\$255.48	\$2,810.24
6	4 port POE Injector-Panel	12	\$706.55	\$70.66	\$777.21
7	Mounting Hardware	1	\$501.74	\$50.17	\$551.91

Total Hardware \$83,647.36

	Labor	No. of Hours	Hr. Contract Rate	Total
1	Software Engineer	0.00	\$157.59	\$0.00
2	System/Hardware Engineer	10.00	\$172.52	\$1,725.20
3	Technician	52.00	\$120.90	\$6,286.80
4	Business Analyst	0.00	\$157.59	\$0.00
5	Database Administrator	0.00	\$224.14	\$0.00
6	Documentation Clerk	10.00	\$161.66	\$1,616.60
7	Testing Engineer	0.00	\$171.17	\$0.00
8	Network Engineer/Administrator	0.00	\$156.22	\$0.00
9	Project Manager	12.00	\$224.14	\$2,689.68
	Total	84.00	Total Labor:	\$12,318.28

Hours:

Subcontractor	Quantity	Cost	10% Markup	Extended Price
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
		Tota	Subcontractor	\$0.00

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total ODCs / Travel \$0.		\$0.00

\$95,965.64

Timothy Duke CTRMA WO-156, 290E DVAS Camera Upgrade 04/23/2020 10/16/2020 Prepared by: 3 of 4 Created: Page: File: Last Mod: Version: 2.4

TOTAL PRICE



WO-CTRMA-156-290E DVAS Camera



Upgrade_v2.4.docx

Client Accep	Client Acceptance:				
Client name					
Date					
Signature					
-					
Kapsch Acce	Kapsch Acceptance				
Name					
Date					
Signature					
-					

Reference Documents 1

WO 156 290E DVAS Mounting Hardware.xlsx

Document Version History 2

Version	Created	Created by	Comments
1.0	04/23/2020	Timothy Duke	Initial Submission based on e-mail.
2.0	09/09/2020	Timothy Duke	Pricing Update
2.1	10/02/2020	Timothy Duke	Update CTRMA Logo
2.2	10/06/2020	Timothy Duke	Update to define MOT
2.3	10/09/2020	Lisa Gauger	Updated 4-port POE pricing and overall pricing to match.
2.4	10/16/2020	Lisa Gauger	Updated don naming details from CO to WO

Prepared by:	Timothy Duke	Created:	04/23/2020	Page:	4 of 4
File:	CTRMA WO-156, 290E DVAS Camera Upgrade	Last Mod:	10/16/2020	Version:	2.4

12	
mil	AT-4-48V60W
	(- \$163.17)

\$815.88 \$652.71

Subtotal	\$652.71
Shipping 🔞	Calculated at next step
Taxes (estimated)	\$53.84

Total

usp \$706.55



Amtex Precision Fabrication 3920 Bahler Avenue Manvel, TX 77578-2823 United States of America

Ph: 281.489.7042

ID: 25336

Fax: 281.489.1992

Quote

Date: 04-Sep-20

Quote To

Kapsch TrafficCom Transportation NA, Inc. 7701 Metropolis Dr. Blg. 14 Suite 100 Austin, TX 78744 United States of America Tim Duke Kapsch TrafficCom Transportation NA, Inc. 7701 Metropolis Dr. Blg. 14 Suite 100 Austin, TX 78744 United States of America

Ph: 713-920-6838

То

Ph: 713-920-6838

Terms		Ship Via		Salesperson	
Net 45		Best Way		AS	
Quantity	Description		Unit Price	Amount	
	*** EMAIL ALL PURCHASE ORDERS TO an	ntexpo@amtexprecision.com ***			
	Line: 001 Part: CAMERA BRACKET CAMERA BRACKET FAB PER DRAWING RECIEVED 9/4/20 MATERIAL = .1875" 316 SS NO FINISH TOLERANCE +/03 CROSS PATTERN SLOTS	Expiration Date: 19-Sep-20 Rev:			
52	ea		\$49.13	\$2,554.76	
	LEAD TIME 2-3 WEEKS THANK YOU FOR THE INQUIRY! WE APPRECIATE THE OPPORTUNITY TO	QUOTE!	Total:	\$2,554.76	



QUOTATION



Send any resulting purchase order to - orders@cohuhd.com

			Send al	ny resulting purchas	se order to - orders@conund.com			
	To:	Kapsch TrafficCo	om		Revision Date:	9/8/2020		
Add	ress:	6020 Ambler Dr	ive		Quotation Date:	09/08/20		
					Sales Manager	Frank Sneed 817	467 3749	
	City:	Mississauga			Quotation Validity:	60 DAYS		
S	tate:	ON	Zip Code:	L4W 2P1	Ship Via:	BEST WAY		
1	Attn:	Rolando Sevilla			F.O.B.:	FACTORY/ORIGI	N	
EN	/AIL:	rolando.sevilla@	<pre> @kapsch.net</pre>		Payment Terms:	NET 30/APPROV	ED CREDIT	
Ph	one:	(905)624-3020	Fax:		*Estimated Lead Time:	6-8 WEEKS ARO		
	Ref:	CTMRA			Price List Rev.:	Version 2019.3		
					Quote #:	CEDQ27896		
					Application Code:			
					Quoted By:	Frank Sneed 817	467 3749	
					* Actual delivery schedule	will be confirmed u	pon receipt	of order.
Item	Qty	Model			Description		Unit Price	Extended Price
1	52	3432-3000	COHUHD 3430H	ID SERIES IP67 H.264	FIXED CAMERA SYSTEM,, POE INPUT	POWER, 1080P 30X	\$1,250.00	\$65,000.00
			DAY/NIGHT, DE	FOG, AUTO FOCUS, E	IS AND DIGITAL ZOOM			
2	52	7610203-002	RJ45 IP67 COUP	PLER, 6MM OR 8.2MI	M CABLE DIAMETER		\$30.00	\$1,560.00
							+	
3	52	8196402-005	UNSHIELDED CA	AT5E, MS TO RJ45, 5	FT		\$85.00	\$4,420.00

Total Quotation Value

\$72,280.00

If you have any questions regarding this quotation, please contact Frank Sneed with TechOne Sales LLC by phone at 817-467-3749 or by email at frank@techonesales.com.

NOTES:

1. All cables are custom made to order for length.

2. If customer intends to make their own cables, the multi-pin mating connector that is required to connect customer made cable to the camera is not

Any purchase order or contract as a result of this quotation is subject to CohuHD's Terms & Conditions.

Purchase Orders resulting from this quotation can be sent to orders@cohuhd.com or mail to CohuHD Costar, LLC, 7330 Trade St.,

San Diego, CA 92121. This quotation contains Proprietary & Confidential information and remains the property of the disclosing parties.

Signed for CohuHD Costar, LLC by:

Frank Sneed

Frank Sneed, Sales Representative - Office: (817)467-3749 - e-mail: frank@techonesales.com

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7	95160A210	Hot-Dipped Galvanized Steel Split Lock Washer for 1/4" Screw Size, 0.26" ID, 0.487" OD, packs of 100	2 packs	today	4.67 per pack	9.34
8	90371A029	Low-Strength Steel Hex Nut, Grade 2, Hot-Dipped Galvanized, 1/4"-20 Thread Size, packs of 100	4 packs	today	5.40 per pack	21.60

Merchandise \$501.74

Notes

Applicable shipping charges and tax will be added.

Prices good through 9/13/20.

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

McMaster-Carr Supply Company

Quotation



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO#158 – 183A ZIC Upgrade

October 16, 2020





Change Request Description

Request ID	CTRMA WO#158
Request Date	10/16/2020
System Module	183A ZICS Upgrade
Change Type	Hardware/equipment
Description	
183A ZIC Upgrade	
Affected Project	
⊠ 183	
□ 290	
🗌 Морас	
SH71	
☐ 45SW	
☐ 183S	
Affected Require	ments
N/A	P
Affected System	
183A Toll Systems	
Description of the	e Solution
Zono Controllors	
Zone Contr serial serve Zone Contr • Kapsch to d	one Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are
 The Toll Zo Zone Contr serial serve Zone Contr Kapsch to o controlled b Kapsch prio 	one Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC).
 The Toll Zc Zone Contr serial serve Zone Contr Kapsch to a controlled b Kapsch pria Card and th MOT/ Closure for T Double land 	one Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector he interface cable.
 The Toll Zc Zone Contr serial serve Zone Contr Kapsch to a controlled b Kapsch pria Card and th MOT/ Closure for T Double land through exp Key Notes and Ass 	one Controller work scope is to upgrade the existing 183A toll locations to the most current foller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll follers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector ne interface cable. Festing e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. Sumptions: nge order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for
 The Toll Zc Zone Contr serial serve Zone Contr Kapsch to a controlled b Kapsch pria Card and th MOT/ Closure for T Double land through exp Key Notes and Ass Testing for this char CTRMA's review and 	one Controller work scope is to upgrade the existing 183A toll locations to the most current foller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll follers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector ne interface cable. Festing e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. Sumptions: nge order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for
 The Toll Zo Zone Contr serial serve Zone Contr Kapsch to o controlled b Kapsch prio Card and th MOT/ Closure for T Double land through exp Key Notes and Ass Testing for this char CTRMA's review and Kapsch assumes all 	one Controller work scope is to upgrade the existing 183A toll locations to the most current foller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll follers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector ne interface cable. Festing e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. sumptions: nege order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for d approval.
 The Toll Zo Zone Contr serial serve Zone Contr Kapsch to o controlled b Kapsch prio Card and th MOT/ Closure for T Double land through exp Key Notes and Ass Testing for this char CTRMA's review and Kapsch assumes all Kapsch will provide and 	one Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector ne interface cable. resting e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. sumptions: nge order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for d approval. pricing is in U.S. Dollars, and pricing is detailed below a Project Schedule. Must be completed before June 2021
 The Toll Zo Zone Contr serial serve Zone Contr Kapsch to a controlled b Kapsch pria Card and th MOT/ Closure for T Double land through exp Key Notes and Ass Testing for this char CTRMA's review and Kapsch assumes all Kapsch will provide a Pricing valid for 60 oc 	ne Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector he interface cable. resting e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. sumptions: nge order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for d approval. pricing is in U.S. Dollars, and pricing is detailed below a Project Schedule. Must be completed before June 2021 tays from Initial Submission. <u>New High</u> <u>Low</u>
 The Toll Zo Zone Contr serial serve Zone Contr Kapsch to o controlled b Kapsch prio Card and th MOT/ Closure for T Double land through exp Key Notes and Ass Testing for this char CTRMA's review and Kapsch assumes all Kapsch will provide and 	one Controller work scope is to upgrade the existing 183A toll locations to the most current roller Configuration, consistent with the Dell Power Edge 340 servers, the Idris rack, and the er. Confirming there are eleven (11) toll location sites, requiring a total of twenty-two (22) Toll rollers (TZC). develop and provide the Dell Zone Controllers that will interface with the existing lanes that are by Adek Zone Controllers. cing includes two (2) spare Dell R340 server, Serial Hub, Idris Power Supply, Idris Detector ne interface cable. resting e closures at night, per location and direction, for a total of 11 closures. MOT will be a passpense (plus mark-up), and is not to exceed \$42,350. sumptions: nge order includes testing similar to Commissioning Testing. Kapsch to provide a test plan for d approval. pricing is in U.S. Dollars, and pricing is detailed below a Project Schedule. Must be completed before June 2021

Prepared by:	Tim Duke	Created:	04/27/2020	Page:	2 of 4
File:	CTRMA WO#158 – 183A ZIC Upgrade	Last Mod:	10/16/2020	Version:	2.3





CTRMA WO#158 – 183A ZIC Upgrade

	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	Dell PowerEdge R340	24	\$82,111.44	\$8,211.14	\$90,322.58
2	Vehicle Detection / Classification Equipment	1	\$61,553.60	\$6,155.36	\$67,708.96
3	0	0	\$0.00	\$0.00	\$0.00
4	0	0	\$0.00	\$0.00	\$0.00
5	0	0	\$0.00	\$0.00	\$0.00
6	0	0	\$0.00	\$0.00	\$0.00
7	0	0	\$0.00	\$0.00	\$0.00

Total Hardware \$158,031.54

	Labor	No. of Hours	Hr. Contract Rate	Total
1	Software Engineer	120.00	\$157.59	\$18,910.80
2	System/Hardware Engineer	320.00	\$172.52	\$55,206.40
3	Technician	120.00	\$120.90	\$14,508.00
4	Business Analyst	0.00	\$157.59	\$0.00
5	Database Administrator	0.00	\$224.14	\$0.00
6	Documentation Clerk	8.00	\$161.66	\$1,293.28
7	Testing Engineer	170.00	\$171.17	\$29,098.90
8	Network Engineer/Administrator	0.00	\$156.22	\$0.00
9	Project Manager	40.00	\$224.14	\$8,965.60
		otal 778.00	Total Labor:	\$127,982.98

Hours:

Subcontractor	Quantity	Cost	10% Markup	Extended Price
MOT For Testing	11	\$38,500.00	\$3,850.00	\$42,350.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00

Total Subcontractor \$42,350.00

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total OD	Cs / Travel	\$0.00

TOTAL PRICE

\$328,364.52

Prepared by:	Tim Duke	Created:	04/27/2020	Page:	3 of 4
File:	CTRMA WO#158 – 183A ZIC Upgrade	Last Mod:	10/16/2020	Version:	2.3





Client Acceptance	be:
Client name	
Date	
Signature	
Kapsch Accepta	nce
Kapsch Name	
Date	
Signature	

1 Reference Documents:

183A ZIC Replacement Bid BOM.xlsx

2 Document Version History

Version	Created	Created by	Comments
1.0	04/27/2020	Lisa Gauger	Initial Submission
2.0	10/02/2020	Tim Duke	Pricing Update.
2.1	10/06/2020	Tim Duke	Update language for commissioning testing
2.2	10/09/2020	Lisa Gauger	Updated MOT description as not to exceed and updated language under "Key Notes and Assumptions:"
2.3	10/16/2020	Lisa Gauger	Updating doc naming details from CO to WO

Prepared by:	Tim Duke	Created:	04/27/2020	Page:	4 of 4
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ZC/ICS Server	MFR		UOM	HOST	ZONE	LakeLine NB	LakeLine SB	Brushy Creek NB	Brushy Creek SB	Park Street ML NB	Park Street ML SB	Scottsdale NB	Crystal Falls ML NB	Crystal Fails ML SB	CFP NB	CFP SB	Spare	GT	Quote	Unit Price	Line Price
a PowerEdge R340	Dell	210-AQUB	ea			2	2	2	2	2	2	2	2	2	2	2	2	24		\$ 3,421.31	\$ 82,111.44
b 3.5" Chassis with up to 4 Hot Plug Hard Drives	Dell		incl																		
c Intel Xeon E-2144G 3.6GHz, 8M cache, 4C/8T, turbo (71W)	Dell		incl																		
d Heatsink for 80W or less CPU	Dell		incl																		
e 2666MT/s UDIMMs	Dell		incl																		
f Performance Optimized	Dell		incl																		
g RAID 1	Dell		incl																		
h PERC H730P Adapter RAID Controller, 2GB	Dell		incl																		
i On-Board LOM	Dell		incl																		
j iDRAC9,Enterprise	Dell		incl																		
k DVD ROM, SATA, Internal for Hot Plug Chassis	Dell		incl																		
I ReadyRails Sliding Rails With Cable Management Arm	Dell		incl																		
m Standard Bezel	Dell		incl																		
n Dell EMC Luggage Tag	Dell		incl												-						
o Performance BIOS Settings	Dell		incl												-						
p Dual Hot Plug Power Supplies 350W	Dell		incl																		
q No Systems Documentation, No OpenManage DVD Kit	Dell		incl																		
r No Operating System	Dell		incl																		
s No Media Required	Dell		incl																		
t UEFI BIOS Boot Mode with GPT Partition	Dell		incl																		
u iDRAC Group Manager, Disabled	Dell		incl																		
v iDRAC,Legacy Password	Dell		incl																		
w PCIe Riser, 1x FH x8 PCIe Gen3 slot, 1x LP x4 PCIe Gen3 slot, R240/R340	Dell		incl																		
x Standard Fan	Dell		incl																		
y Dell Hardware Limited Warranty Plus On Site Service	Dell		incl																		
z ProSupport: Next Business Day Onsite Service After Problem Diagnosis, 3 Years	Dell		incl																		
aa ProSupport: 7x24 HW/SW Tech Support and Assistance, 3 Years	Dell		incl																		
ab 16GB 2666MT/s DDR4 ECC UDIMM	Dell		incl																		
ac 4TB 7.2K RPM NLSAS 12Gbps 512n 3.5in Hot-plug Hard Drive	Dell		incl																		
ad C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord, North America	Dell		incl																		
VEHICLE DETECTION / CLASSIFICATION				HOST	ZONE	LakeLine NB	LakeLine SB	Brushy Creek NB	Brushy Creek SB	Park Street ML NB	Park Street ML SB	Scottsdale NB	Crystal Falls ML NB	Crystal Falls ML SB	CFP NB	CFP SB	Spare	GT			
a Detector Rack - 16 position (14 detector slots)(No Rack Adaptor Needed)	Northstar Controls	NRI-19	ea			1	1	0	0	1	1	1	1	1	1	1	1	10 No	rthstar 226	\$ 845.00	\$ 8,450.00
d Loop Detector, 4 Channel (up to 2k feet lead-in) - 3M AVC Enabled	Northstar Controls	N224-I	ea			8	8	0	0	8	8	3	8	8	3	3	7	64 No	rthstar 226	\$ 305.00	\$ 19,520.00
e Power Supply for Northstar Rack (Modified for 240VAC)	Northstar Controls	NPS-4	ea			1	1	0	0	1	1	1	1	1	1	1	2		rthstar 226		\$ 1,375.00
g Port Expander - Serial Hub 8-Port - Panel Mount	DeviceMaster	99465-7	ea			0	0	0	0	0	2	2			2	2	3	-	-Tech 216605		\$ 6,600.00
h Port Expander - Serial Hub 16 Port - 1U Rack Mount	DeviceMaster	99460-2	ea			2	2	0	0	2	2	2	2	2	2	2	2	20 BG	-Tech 216605	\$ 855.00	\$ 17,100.00
1U Rack Mount Shelf for Device Master	DeviceMaster	99160-1	ea			2	2	0	0	2	2	2	2	2	2	2		18 BG	-Tech 216605	\$ 77.00	\$ 1,386.00
1U Rack Mount Shelf for AVI	DeviceIvidstei		ca			0	0	0	0	0	0	0	0	0	0	0		0			\$ -
j PCI - RS-232 Port Expander (8-Port Serial Card with DB9M Fanout Cable	Comtrol	RocketPort EXPRESS Octable DB9	ea			2	2			2	2	2	2	2	2	2			-Tech 216605		\$ 6,732.00
k DB9 RS-232 "Y" Cable (DB9 Male to Dual DB9 Female, 8 inch)(28 AWG)	CableWholesale	30D1-27208	ea			8	8	0	0	8	8	3	8	8	3	3	6	63 BG	-Tech 216605	\$ 6.20	\$ 390.60
																					\$ 61,553.60

Northstar Controls, LLC 6167 Clark Center Ave

Sarasota, FL 34238

QUOTATION

Quote Number:226Quote Date:Sep 29, 2020Page:1

Voice: 941-926-2454

Quoted To:

Kapsch TrafficCom Transportation - USA 2855 Premier Pkwy Suite F Duluth, GA 30097 USA

CustomerID	Good Thru	Payment Terms	Sales Rep
Kapsch 01	10/29/20	Net 30 Days	

Quantity	Item	Description	Unit Price	Amount
	NRI19 Rack	19 Inch Idris Rack	845.00	10,140.00
80.00	N 2241	N224-I - Quad Channel Rack Detector Idris Enabled	305.00	24,400.00
13.00	NPS-4 240/12V	NPS4S - 60W Power Supply Unit 240VAC	125.00	1,625.00
		1	Subtotal	36,165.00
			Freight	
			Sales Tax	
			TOTAL	36,165.00

1			2301 Dent Suite A	on Drive	QUOI	TATION
	TECHNO	LOGIES	Fax - 512-3	2-336-2299	Account # Quote # Date Page	001497 216605 09/30/20 1
285 Suit	osch TrafficCom USA, Inc 5 Premiere Parkway te F uth, GA 30097		Terms Ship Via FOB Reference # Contact	Net 30 Days UPS Ground Shipping Point Jojo	Salesperson Ale	x Giles
Ln#	Item # / Customer Item # Description	Mfg/DC F	Ship Date Request Date	Quantity	Unit Price	Ext Price
1	99465-7 4860L100950005 DEVICEMASTER_SERIAL HUB 8,DB9 : ROHS 1-2 weeks ARO	COMTRL		11	600.00000	6,600.00
2	99460-2 4860L103461 Device Master Serial Hub 16-Port Ethernet device server	COMTRL		24	855.00000	20,520.00
3	99160-1 4860L102967011 Comtrol Rack Mount	COMTRL		22	77.00000	1,694.00
4	30128-8 PCI Express 8-Port serial card with DB9M fanout cable	COMTRL		22	374.00000	8,228.00
5	30D1-27208 DB9 Serial Y adapter DB9 Male to Dual DB9 Female, 8in 1-2 weeks ARO	GEN		79	6.20000	489.80
					ibtotal: Total:	37,531.80 37,531.80

QUOTE VALID FOR 30 DAY(S)

Authorized Signature

_



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO-160, TIM Center UPS Replacement

October 16, 2020





WO-CTRMA-160 TIM Center UPS Replacement

Change Request Description

Poguast ID	CTRMA-WO-160
Request ID Request Date	10/16/2020
System Module	TIM Center UPS
System would	Replacement
Change Type	Hardware & Software
Description	
	S at the TIM Center
Affected Project	
⊠ 183	
290	
🛛 Морас	
⊠ SH71	
⊠ 45SW	
⊠ 183S	
Affected Require	ments
N/A	
Affected System	
All Processes toll s	
Description of the	
Upgrade the UPS	
<u>1 – UPS Turnkey I</u>	new conduit and conductors to extend existing 480 volt 150 Amp circuit as necessary
	e UPS and battery cabinet from existing bypass cabinet for removal
	Existing UPS
	e spare fuse box as required
	New UPS at offsite location
	rt new UPS to site
	existing UPS, bypass and battery cabinet
	ew UPS on existing concrete slab
	t and extend existing feed from UPS to low voltage panel
	new conduit and conductors to extend existing 208 volt 225 Amp circuit as necessary
	permitting as required
•	iew excluded
	be received and moved by 3 rd party and will include provisions to install UPS through
	ors and traverse grass area
	nately 3 Day Total outage for demo, installation, wire, startup new UPS
	g of Packing Material Included
Lugs Inc	• •
2 – Load Bank Tes	
	Load Bank
	bad Bank Cable with lugs

Prepared by:	Timothy Duke	Created :	04/27/2020	Page:	2 of 5
File:	CTRMA WO-160, TIM Center UPS Replacement	Last Mod:	10/16/2020	Version:	2.3



System Integration



WO-CTRMA-160 TIM Center UPS Replacement

- UPS Field Technician for UPS Operation during test
 - IR Scanning with report
 - 2 Hour Burn In, Step Loads, 100% Load Battery Discharge Test with report
- 3 Extended Warranty Service Contract
 - 5 Years total coverage(UPS Only)
 - Includes Parts, Labor and Travel for repairs
 - Annual UPS Preventative Maintenance(Years 2-5)

Semi-Annual Battery Maintenance(Years 2-5

Impact	High 🗌 Medium 🗌 Low
Total	\$118,339.65
	Pricing good for 60 Days
Quantity	1

Prepared by:	Timothy Duke	Created :	04/27/2020	Page:	3 of 5
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WO-CTRMA-160 TIM Center UPS Replacement

	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	UPS Replacement	1	\$107,581.50	\$10,758.15	\$118,339.65
2	0	0	\$0.00	\$0.00	\$0.00
3	0	0	\$0.00	\$0.00	\$0.00
4	0	0	\$0.00	\$0.00	\$0.00
5	0	0	\$0.00	\$0.00	\$0.00
6	0	0	\$0.00	\$0.00	\$0.00
7	0	0	\$0.00	\$0.00	\$0.00
				Total Hardware	\$118,339.65

	Labor	No. of Hours	Hr. Contract Rate	Total
1	Software Engineer	0.00	\$157.59	\$0.00
2	System/Hardware Engineer	0.00	\$172.52	\$0.00
3	Technician	0.00	\$120.90	\$0.00
4	Business Analyst	0.00	\$157.59	\$0.00
5	Database Administrator	0.00	\$224.14	\$0.00
6	Documentation Clerk	0.00	\$161.66	\$0.00
7	Testing Engineer	0.00	\$171.17	\$0.00
8	Network Engineer/Administrator	0.00	\$156.22	\$0.00
9	Project Manager	0.00	\$224.14	\$0.00
		otal 0.00	Total Labor:	\$0.00

Hours:

Subcontractor	Quantity	Cost	10% Markup	Extended Price
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
	·	Tot	al Subcontractor	\$0.00

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total OD	Cs / Travel	\$0.00

TOTAL PRICE

\$118,339.65

Prepared by:	Timothy Duke	Created :	04/27/2020	Page:	4 of 5
File:	CTRMA WO-160, TIM Center UPS Replacement	Last Mod:	10/16/2020	Version:	2.3





WO-CTRMA-160 TIM Center UPS Replacement

Client Acceptane	ce:
Client name	
Date	
Signature	
Kapsch Accepta	nce
Kapsch Name	
Date	
Signature	

1 Reference Documents:

n/a.

2 Document Version History

Version	Created	Created by	Comments
1.0	05/07/2020	Timothy Duke	Initial Submission
2.0	09/09/2020	Timothy Duke	Updated Pricing
2.1	10/02/2020	Timothy Duke	Updated to TIM Center
2.2	10/06/2020	Timothy Duke	Updated description
2.3	10/16/2020	Lisa Gauger	Updated doc naming details from CO to WO

Prepared by:	Timothy Duke	Created :	04/27/2020	Page:	5 of 5
File:	CTRMA WO-160, TIM Center UPS Replacement	Last Mod:	10/16/2020	Version:	2.3



APC/Schneider Electric - Manufacturer of Critical Power and Cooling Systems specializing in:

- UPS Systems 400VA to 4.0MW
- Power Distribution
- Cooling Solutions Perimeter and InRow Designs
- Monitoring and Management Solutions
- Rack Systems and Accessories
- Components or Turnkey Designs

Project Name	Kapsch TrafficCom	Project ID #	N/A
Proposal Date	09/08/2020	Prepared By	Conner Fisher
UPS System	Schneider Electric	Expiry Date	10/31/2020
Proposed	Galaxy VS		



Galaxy VS System Overview:

- Highly efficient ECOnversion mode
- Flexible battery solutions
- Large color touch screen display
- Industry-leading footprint
- Full front access
- Compact footprint
- Back-to-the-wall installation
- Operates at 40 C without derating
- Low audible noise levels
- Replaceable dust filter for harsh environments
- Configurable input/output relays



Integration

- Schneider Electric StruxureWare™ software applications and suites
- Electrical network earthing systems
- Facilities infrastructure
- Seismic certified
- Monitoring systems BMS, Modbus, etc.

Energy and cost savings

- High efficiency double conversion mode
- ECO mode
- ECOnversion mode
- Energy storage flexibility
- Traditional (VRLA) and modular battery offer
- Short and long backup times
 - Selectable charging modes

Ease of installation

- · System designed for ease of cabling in confined installation spaces
- · Single cabinet top and bottom cable entry
 - Integrated casters for ease of mobility on UPS and modular battery cabinets
- Casters allow UPS configurations to be moved easily and installed up against the wall
- Separate cabinet for input and output cabling ensures quick and easy installation
- Top and bottom entry standard provides great flexibility to the installer

Monitoring

- Touch screen color display
- Integrated network management capability for easy access to the network
- Modbus & Network SNMP capability
 - Customizable dry contacts and relays

Double conversion mode

- Up to 96.5% efficiency in double conversion online mode even at low load levels
- Less energy losses = cost savings
- Less heat dissipation = lower cooling costs

ECOnversion mode

- Ultra high efficiency up to 99%
- Keeps excellent load protection
- Continuously charged batteries
- Compliant with IEC 62040-3 class 1 output definition of UPS standard

ECO mode

- Up to 99% efficiency
- Compliant with IEC 62040-3 class 3 output definition of UPS standard• Harmonics and input power factor correction

Energy storage option guoted:

Lithium-Ion Battery Storage

Startup and 1 year Service

Limited supervision of Schneider Electric equipment installation, Full start-up and standard testing by a Schneider Electric Field Service engineer. Start-up services include facility inspection, system test and complete paperwork inspection including customer satisfaction card. Start-up serviced is based on work performed at the convenience of the customer.

Includes basic operational training, maintenance bypass procedure, basics of SE equipment, component location identification, and alarm conditions or as specified in base bid.

The start-up will initialize the full parts and labor warranty, which includes 12 months of remedial service: parts, labor and expenses on a 5x8 Normal Business Hours basis or as specified in base bid.



Warranty:

- UPS One full year warranty after equipment start-up or 18 months after shipment of UPS
 - Provides all parts, labor, travel and any freight cost to get parts to the job-site.
 - Next Business Day Response
- Batteries Three year full warranty + 7 year pro-rated warranty

Bill of Materials:

Quantity		
1	UPS SYSTEM	80KVA / 80KW UPS
	Input	480 VAC 3 wire + ground, 60Hz
	Output	208 VAC 3 wire + neutral + ground, 60Hz
	Dimensions	20.5"W x 33.5"D x 58.5"H per system 6" Rear Clearance required for Airflow
1	Lithium-Ion Battery Cabinet	Adjacent – Line Up and Match 22 Minutes at Full Load of 80kW
	Dimensions	25.6" W x 23.6" D x 80.9" H
1	External Maintenance Bypass	Included – Line Up and Match
	Dimensions	23.75"W x 33"D x 58.5"H
1	Accessories	SNMP Communications Card
1	Services	5x8 Startup

Base Bid	\$56,328.00
Freight Estimate	Prepay and ADD – Estimated \$2,000
Proposals are valid for 30 days	Subject to approved submittals

OPTIONS:

1 – UPS Turnkey Installation:

\$27,160.00

- Provide new conduit and conductors to extend existing 480 volt 150 Amp circuit as necessary
- Separate UPS and battery cabinet from existing bypass cabinet for removal
- Dispose Existing UPS
- Relocate spare fuse box as required
- Receive New UPS at offsite location
- Transport new UPS to site
- Remove existing UPS, bypass and battery cabinet
- Install new UPS on existing concrete slab
- Intercept and extend existing feed from UPS to low voltage panel
- Provide new conduit and conductors to extend existing 208 volt 225 Amp circuit as necessary
- Provide permitting as required
- Plan review excluded



- UPS to be received and moved by 3rd party and will include provisions to install UPS through double doors and traverse grass area
- Approximately 3 Day Total outage for demo, installation, wire, startup new UPS
- Uncrating of Packing Material Included
- Lugs Included

2 – Load Bank Testing \$6,285.00

- 100kVA Load Bank
- 50 FT Load Bank Cable with lugs
- UPS Field Technician for UPS Operation during test
- IR Scanning with report
- 2 Hour Burn In, Step Loads, 100% Load Battery Discharge Test with report

3 – Extended Warranty Service Contract \$15,808.50

- 5 Years total coverage(UPS Only)
- Includes Parts, Labor and Travel for repairs
- Annual UPS Preventative Maintenance(Years 2-5)
- Semi-Annual Battery Maintenance(Years 2-5)

Project Grand Total:	\$107,581.50
Freight:	Included!

Item's NOT included in our BASE BID quotation:

- 1. Movement of equipment from customers dock location to placement of equipment
- 2. Any room modifications
- 3. Installation of quoted equipment
- 4. Any cables, control cables or communication cables
- 5. Installation of seismic zone 4 anchor kits or bolt hardware.
- 6. Uncrating and disposal of crating material from customers job site.
- 7. Any cable lugs to connect input to UPS, MBS or output to gear.
- 8. Load Bank cable hook up or run of cables if applicable
- 9. Load Bank Rental, load bank testing or commissioning unless noted in quotation
- 10. Factory Witness Testing and Travel beyond factory test report unless noted in quotation
- 11. Extended Training beyond operator training unless noted in quotation
- 12. State or Local Taxes

Exclusions/Clarifications:

Freight Estimate Details:

- Prepaid & Add FOB, Factory Dock to Dock
- Dock to Dock
- Includes freight shipped via Air Ride Padded Van
- Unloading and equipment move-in by others.
- Requires load dock for delivery or lift gate as required.



Estimated Leadtime of the Solution:

6-7 Weeks ARO

Provided By:

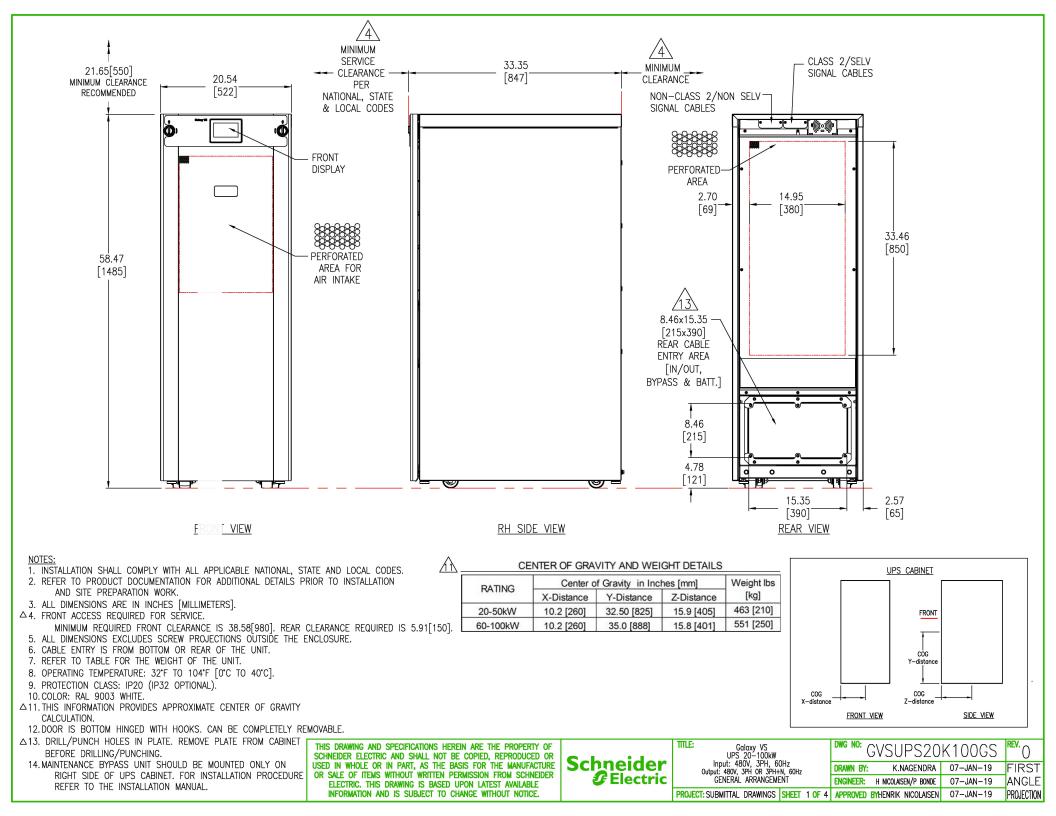


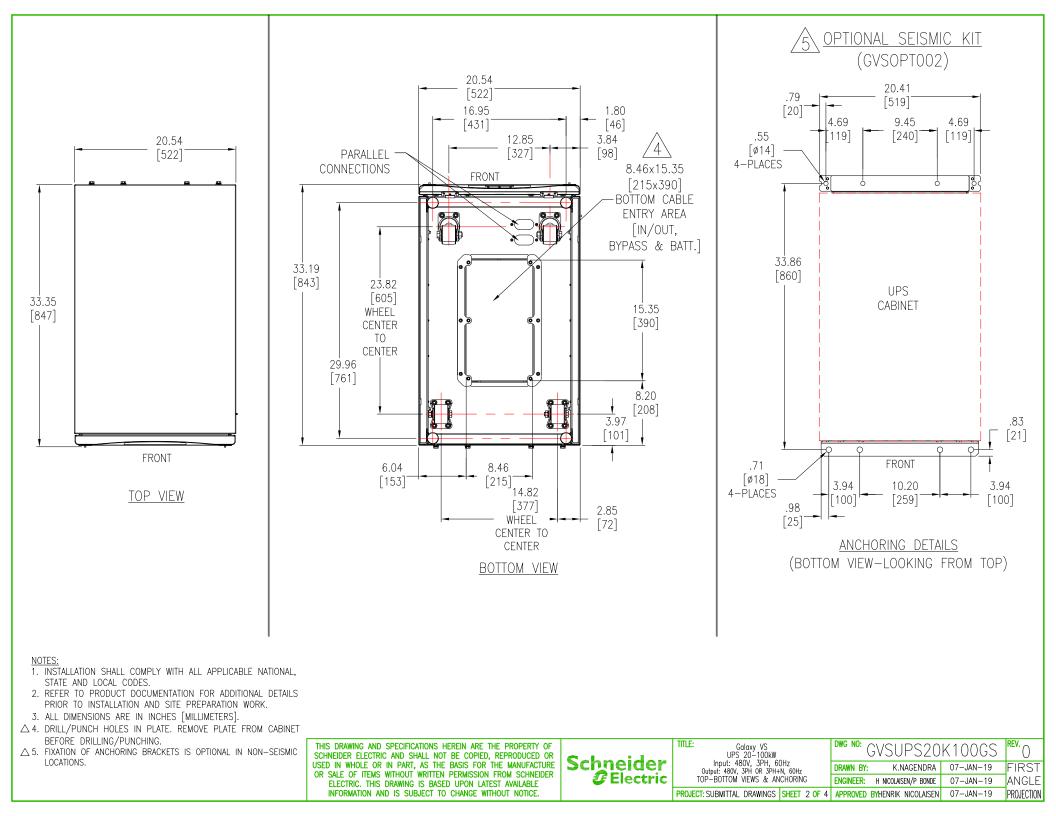
Conner T. Fisher www.swmco.com Mobile: 512-809-4275 Email : <u>conner@swmco.com</u>

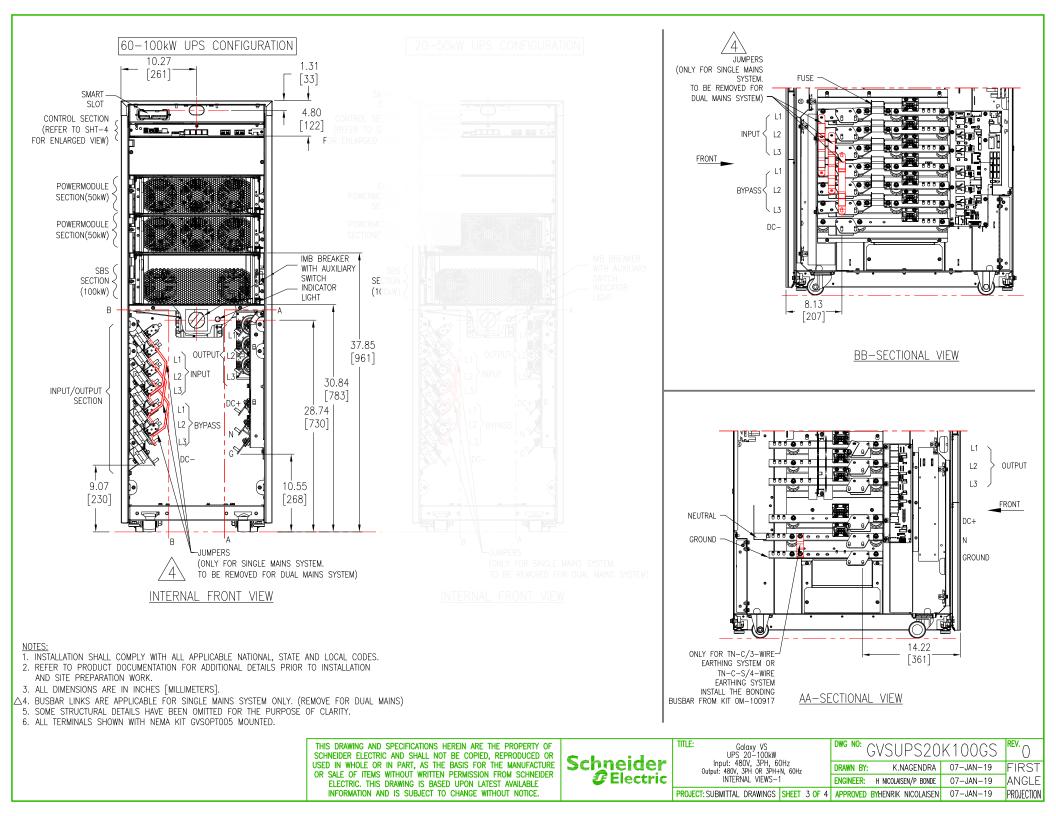
Galaxy VS UPS SYSTEM

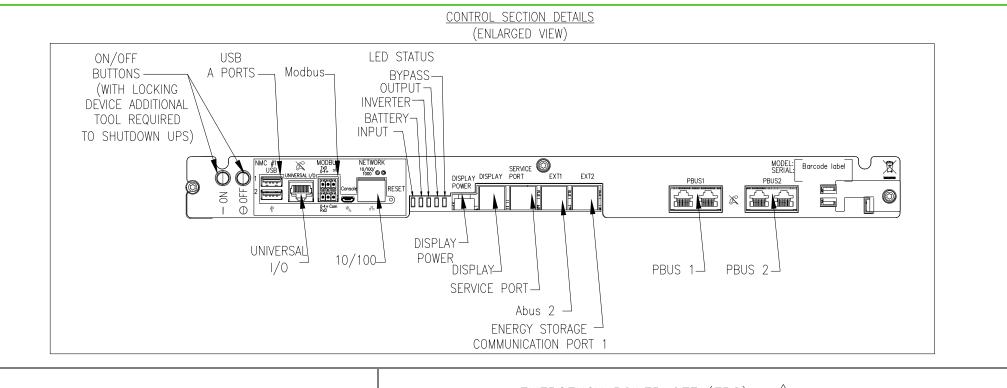
80 kW

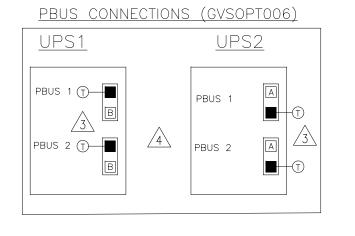
480V Input - 208V Output Lithium-Ion Battery Solution

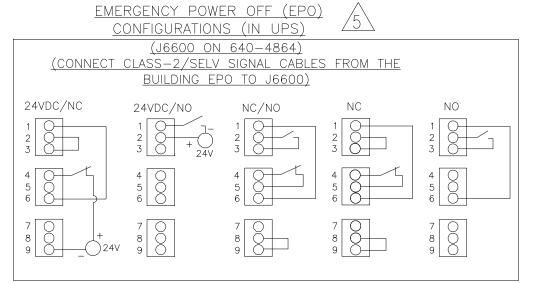












TITLE:

2 Electric

TLE: Galaxy VS UPS 20-100kW Input: 480V, 3PH, 60Hz Output: 480V, 3PH oR 3PH+N, 60Hz CONNECTIONS & CONTROL PANEL DETAILS

DWG NO:

DRAWN BY:

PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 4 APPROVED BYHENRIK NICOLAISEN

GVSUPS20K100GS

07-JAN-19

07-JAN-19

07-JAN-19

K.NAGENDRA

ENGINEER: H NICOLAISEN/P BONDE

REV.

FIRST

ANGLE

PROJECTION

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK. 2.

riangle3. TERMINATORS MUST BE INSTALLED & POSITIONED AS ADDRESSED IN INSTALLATION MANUAL.

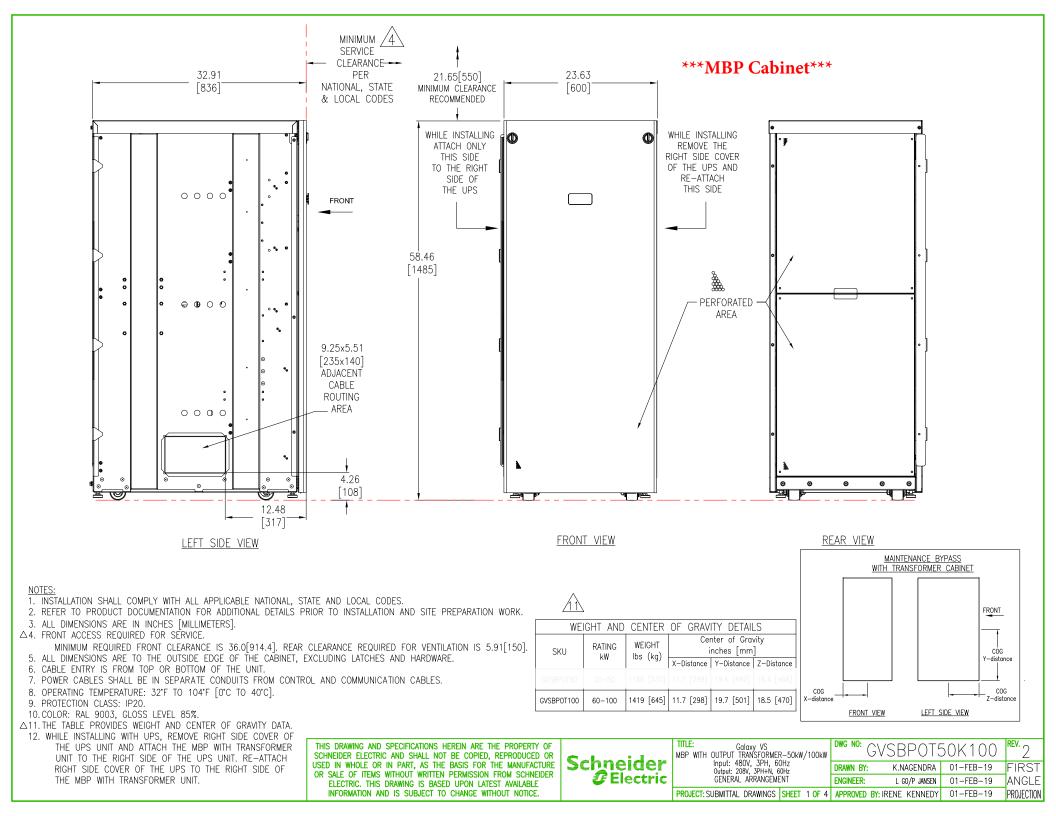
riangle4. Optional cat5 PBUS cables 82 FEET [25 METERS](SKU# GVSOPTO06) SHALL BE INSTALLED IN SEPARATE CONDUITS.

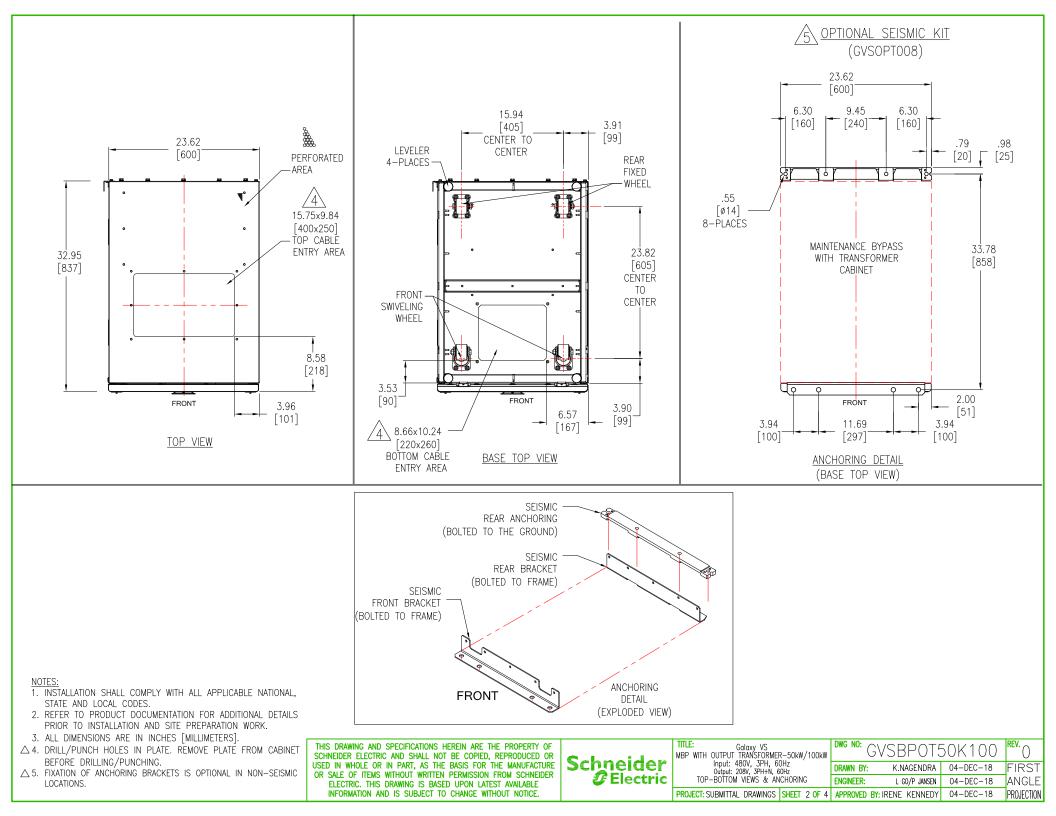
riangle5. Do not connect any circuit to the epo terminal block unless it can be confirmed that the

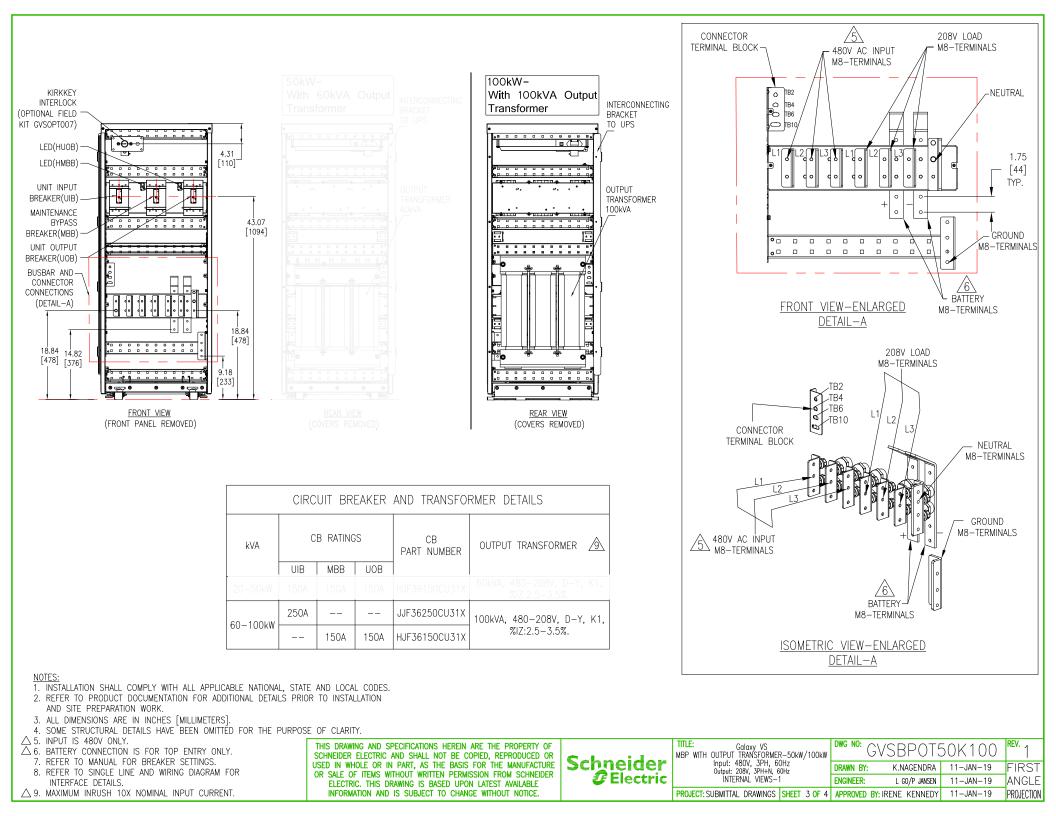
CIRCUIT IS CLASS 2/SELV. ALL CIRCUITS CONNECTED MUST HAVE THE SAME OV REFERENCE.

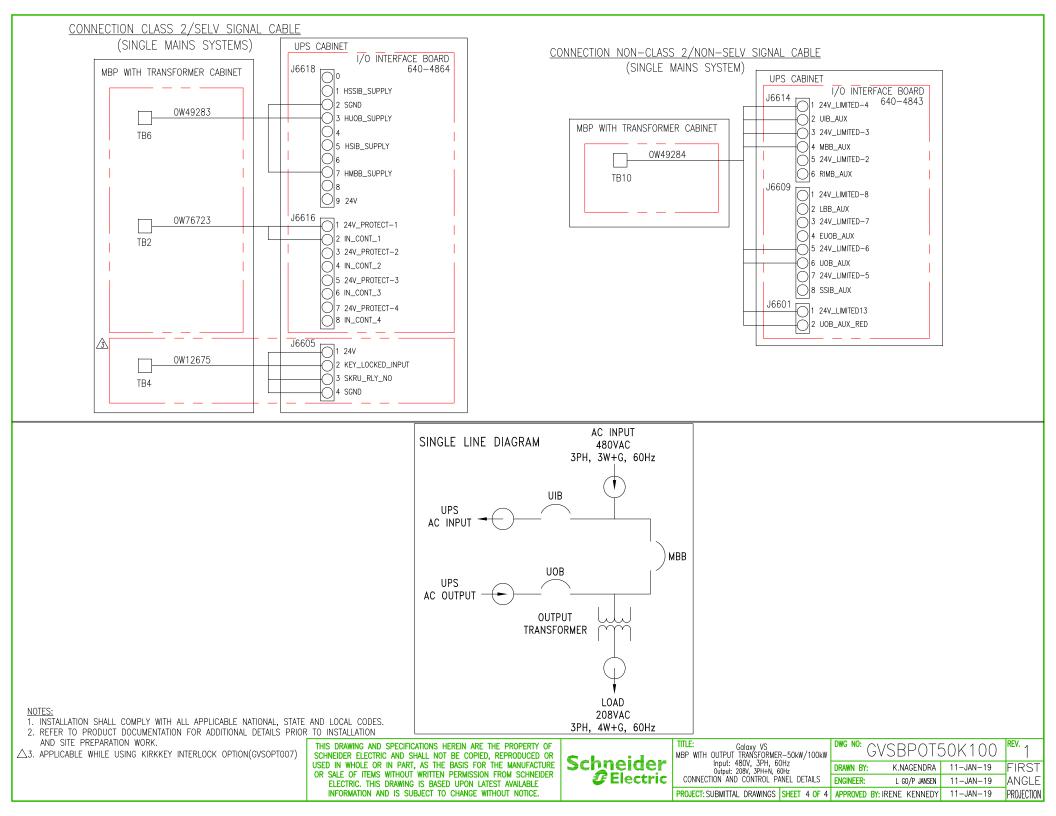
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Maintenance Bypass Cabinet

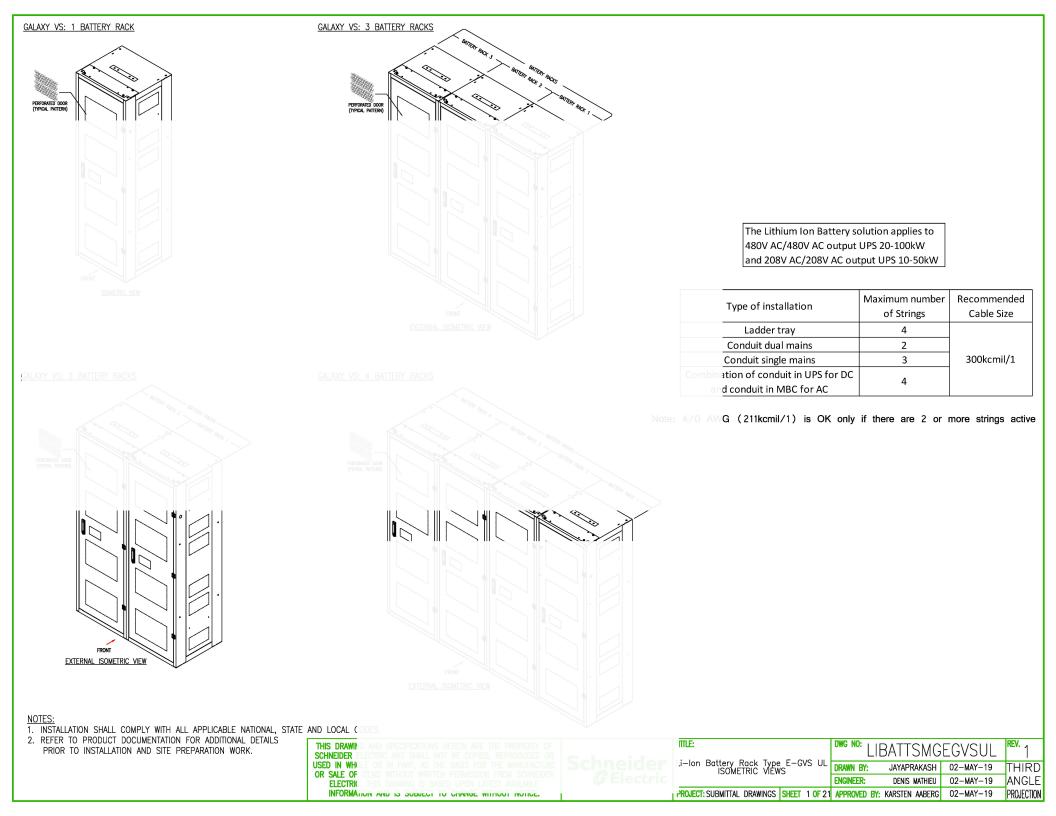


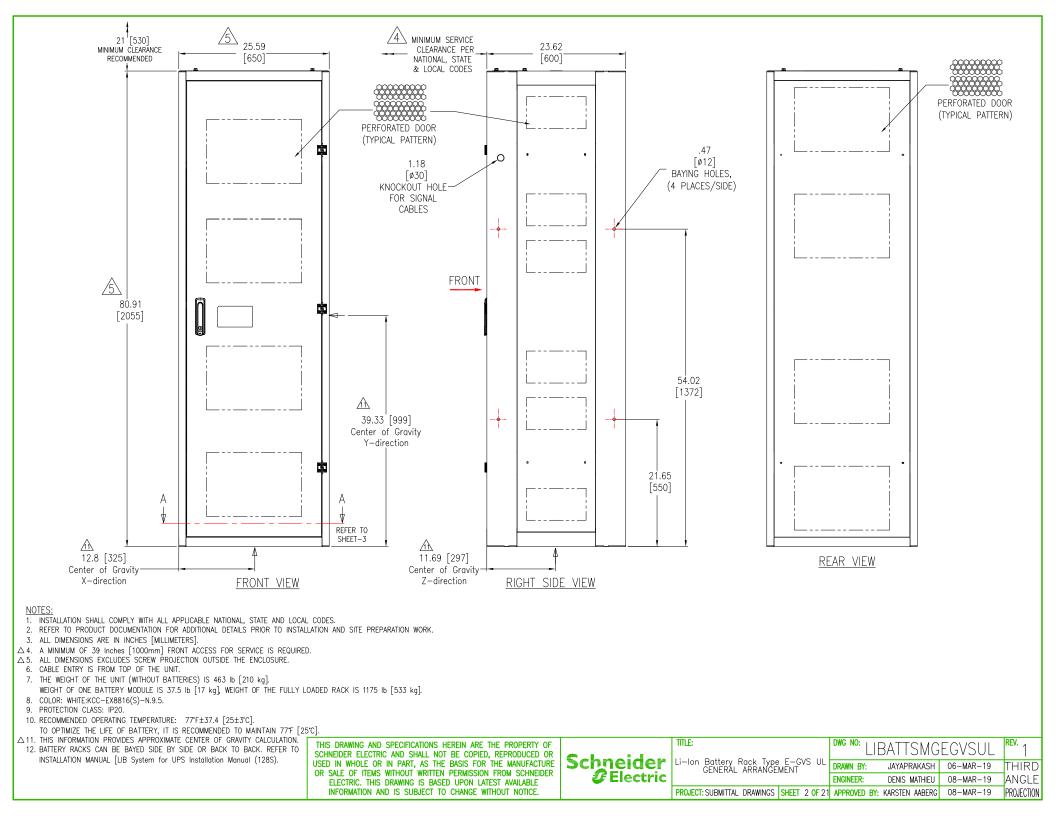


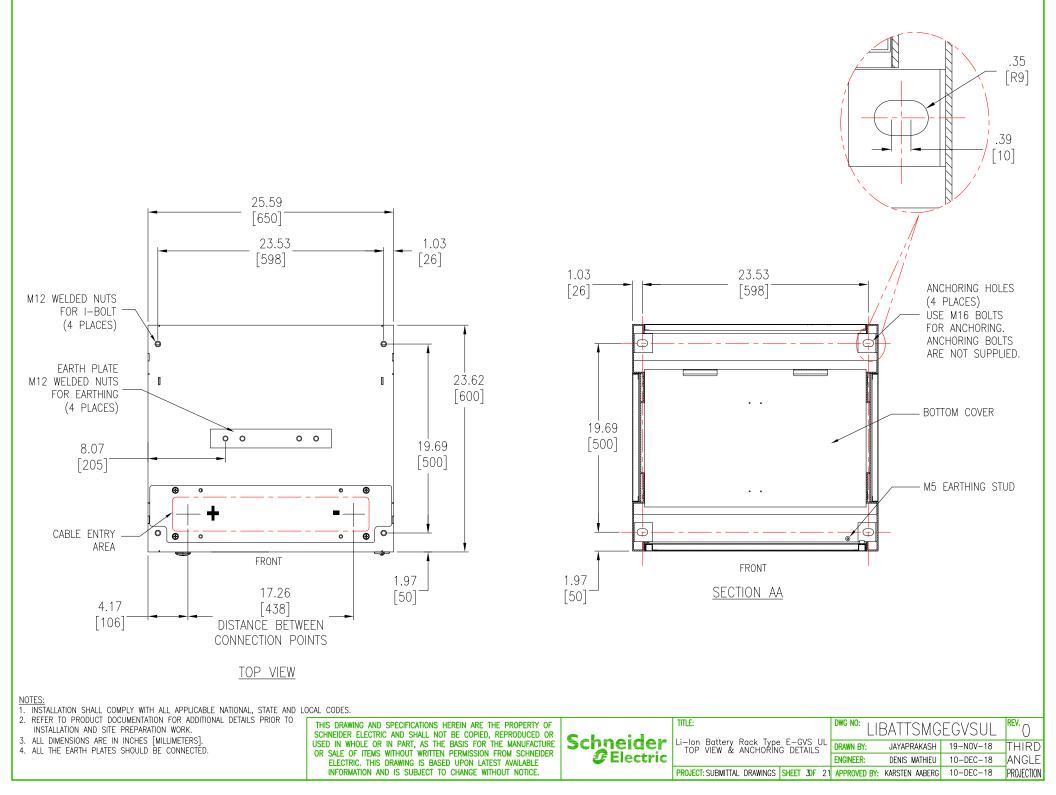


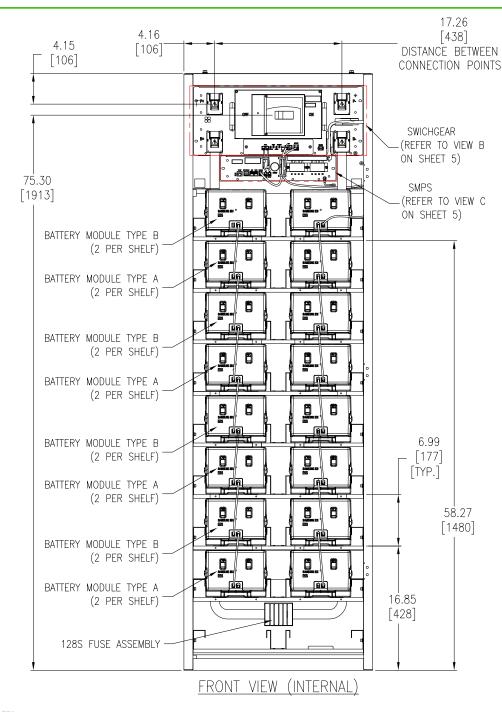


<u>Lithium-Ion</u> Battery Cabinet







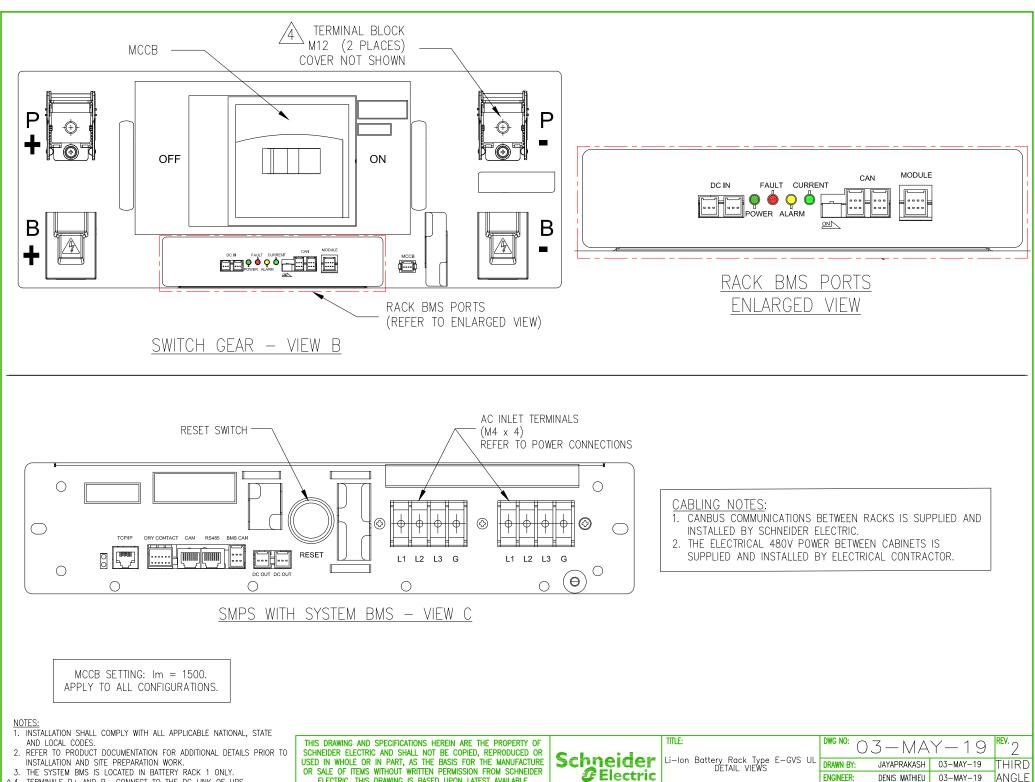


NOTES:

- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- 4. USE M10 SCREWS FOR MOUNTING MULTIPLE RACKS SIDE BY SIDE.
- 5. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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	TITLE:	-	DWG NO:	BATTSMG	EGVSUL	rev. ()
chneider	Li-Ion Battery Rack Type INTERNAL VIEW	e E-GVS UL S	DRAWN BY:	JAYAPRAKASH	19-NOV-18	THIRD
<i>G</i> Electric			ENGINEER:	DENIS MATHIEU	10-DEC-18	ANGLE
	PROJECT: SUBMITTAL DRAWINGS	SHEET 40F 21	APPROVED BY:	KARSTEN AABERG	10-DEC-18	PROJECTION



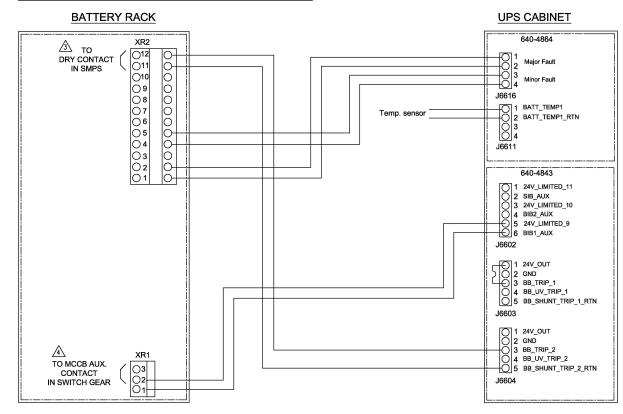
3. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY. △ 4. TERMINALS P+ AND P- CONNECT TO THE DC LINK OF UPS. THE CLEARANCE FROM TERMINAL TO COVER IS 0.55 Inch [14mm]. USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

ENGINEER: DENIS MATHIEU 03-MAY-19 03-MAY-19 PROJECT: SUBMITTAL DRAWINGS SHEET 50F 21 APPROVED BY: KARSTEN AABERG

ANGLE

PROJECTION

CONTROL WIRING DETAILS WITH 1 BATTERY RACK



RECOMMENDED CABLE SIZE: 18 TO 12 AWG

The Lithium Ion Battery solution applies to 480V AC/480V AC output UPS 20-100kW and 208V AC/208V AC output UPS 10-50kW

NOTES:

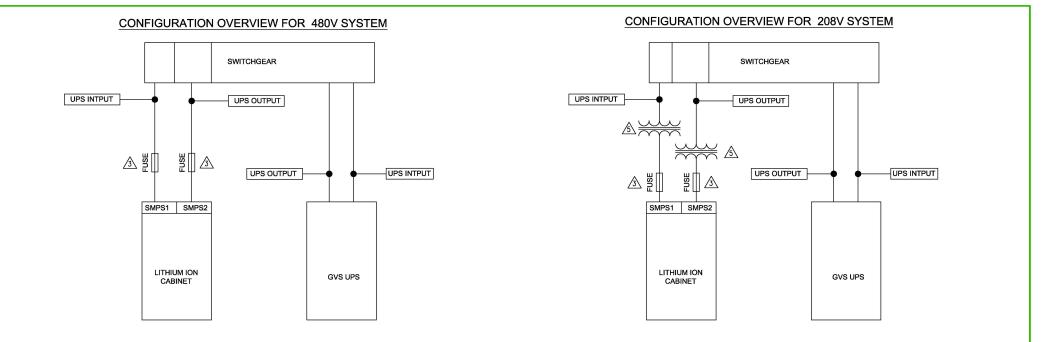
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO
- INSTALLATION AND SITE PREPARATION WORK.
- \triangle 3. USE THE PROVIDED 0W99108 TO CONNECT SMPS DRY CONTACT. \triangle 4. USE THE PROVIDED 0W99109 TO CONNECT MCCB AUX CONTACT.
- 5. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS
- INSTALL THE TEMPERATURE SENSOR UM-1160 PROVIDED WITH THE IN THE BATTERY ROOM.
 SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR
- 6. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED F THE PURPOSE OF CLARITY.

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Schr

J

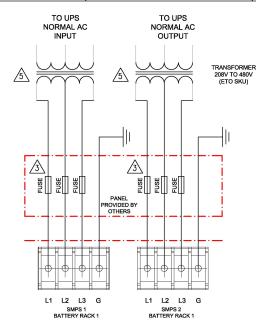
		DWG NO: LIBATTSMGEGVSUL	rev. 2
Electric	Li-Ion Battery Rack Type E-GVS UL INTERFACE DETAILS		THIRD
Electric		ENGINEER: KARSTEN AABERG 15-APR-19	ANGLE
	PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 21	APPROVED BY: KARSTEN AABERG 15-APR-19	PROJECTION



SMPS INPUT/OUTPUT (CONTROL POWER CONNECTIONS) 480V

TO UPS TO UPS NORMAL AC NORMAL AC INPUT OUTPUT ß 3 FUSE FUSE EUSE FUSE PANE PROVIDED BY OTHERS L1 L2 L3 G L1 L2 L3 G SMPS 2 BATTERY RACK 1 SMPS 1 BATTERY RACK 1

SMPS INPUT/OUTPUT (CONTROL POWER CONNECTIONS) 208V



RECOMMENDED CABLE SIZE: 18 TO 12 AWG

The Lithium Ion Battery solution applies to 480V AC/480V AC output UPS 20-100kW and 208V AC/208V AC output UPS 10-50kW

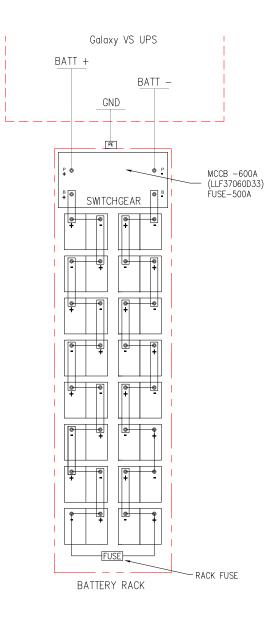
NOTES:

- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. FUSE TYPE: MERSEN, REF. ATQR6 OR EQUIVALENT 6A 600V 200KA KAIC. ALTERNATE SOLUTION: SCHNEIDER ELECTRIC MOTOR CIRCUIT BREAKER-TeSys GV2P10.
- 4. SOME STRUCTÚRAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
- △ 5. FOR 208V SYSTEM, A STEP UP TRANSFORMER IS REQUIRED TO CONVERT FROM 208V TO 480V FOR SMPS 1 AND 2 (ETO SKU).

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(OF) OR	C . L	TTLE:		DWG NO:	IBATTSMG	EGVSUL	REV. ()
TURE	Schneider	Li—Ion Battery Rack Type INTERFACE DETA	E-GVS UL	DRAWN BY:	JAYAPRAKASH	15-APR-19	THIRD
	G Electric			ENGINEER:	KARSTEN AABERG	15-APR-19	ANGLE
		PROJECT: SUBMITTAL DRAWINGS	SHEET 7 OF 21	APPROVED I	BY: KARSTEN AABERG	15-APR-19	PROJECTION

SCHEMATIC DIAGRAM - POWER FOR GALAXY VS WHEN 1 BATTERY RACK BAYED WITH LADDER TRAY TO UPS

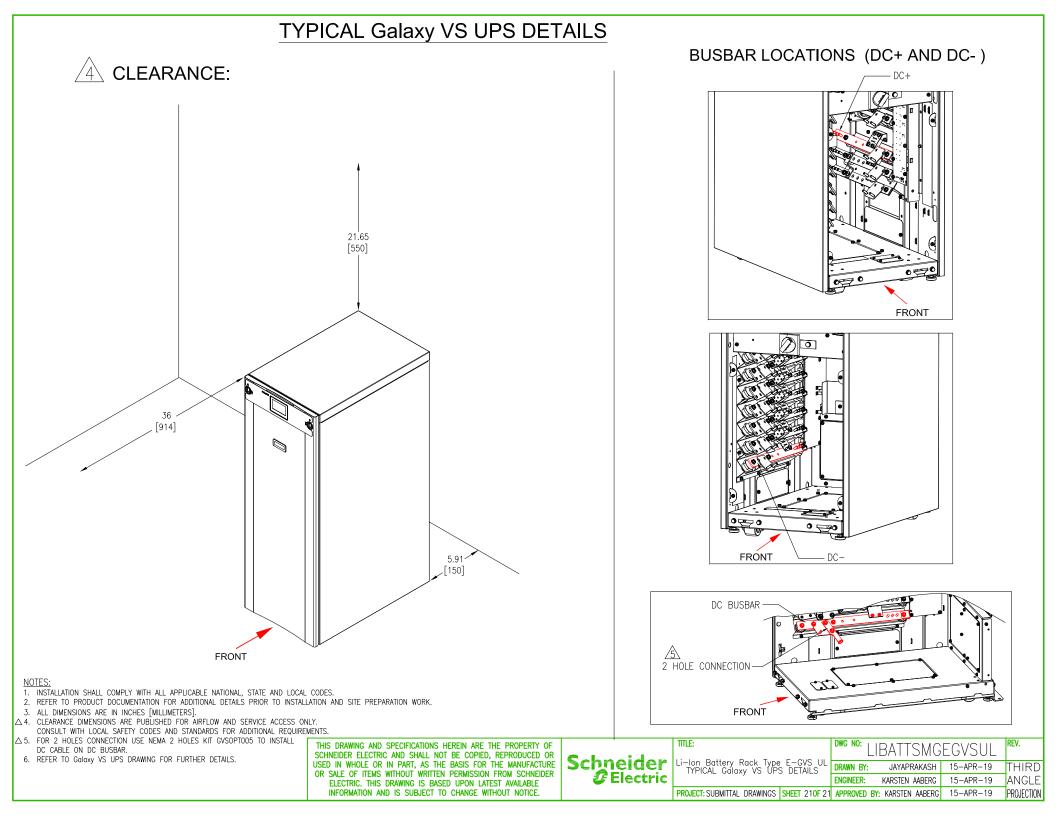


NOTES: 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

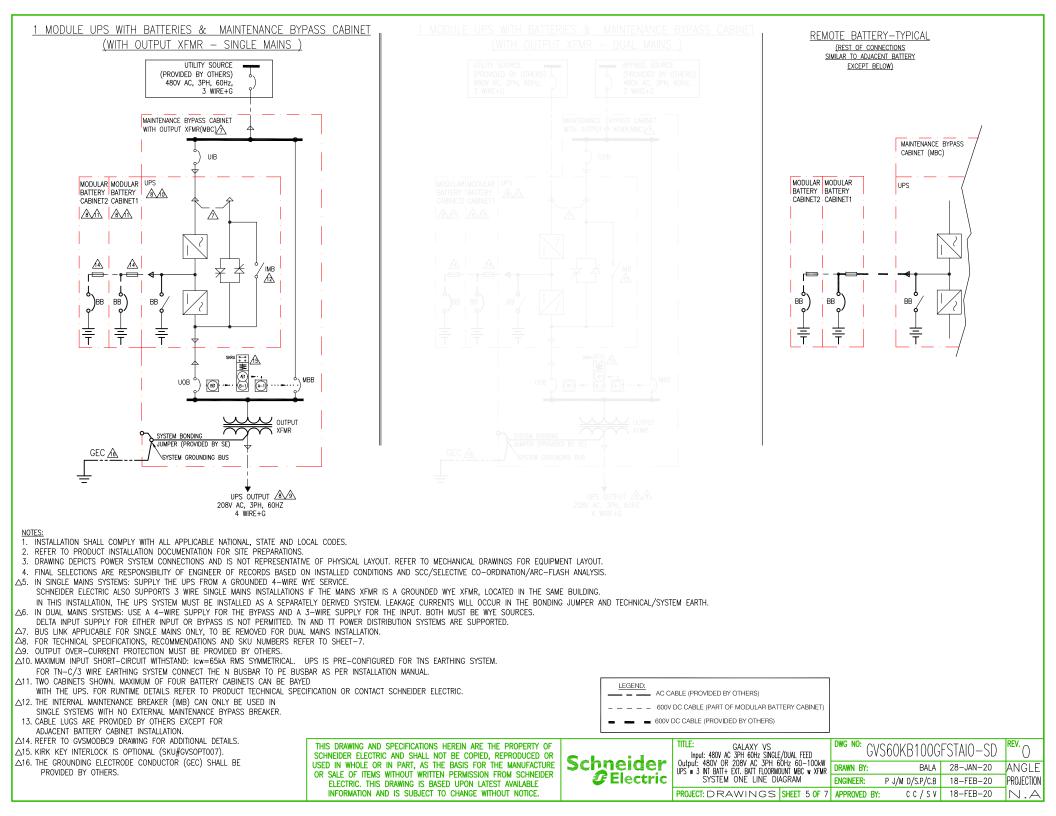
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One-line Diagram



Site Planning

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			WIRE+G OUTPU			;								PUT XFN	,		NOMINAL	SKU NUMBE	(00) 105	IT BREAKER DER ELECTRIC)																	
C VOL	FAGE: FOR 32 BL	LOCKS: 384V	DC, 40 BLOCKS: 4	80V DC, 48 E	BLOCKS: +/-28	38V DC (WHE	N USING 4	B BLOCKS,	SPLIT STRING	IS MANDATO	RY)								RATING	MFG. P/N																	
									NOMINAL BY								RECOMMENDED	GVSCBT1																			
							NOMINAL	NOMINAL	CURRENT				BATTERY CURRENT (A DC)		UPSTREAM PROTECTION	GVSCBT1ST																					
							MAINS	MAINS	MAINS		OUTPUT						(MAKE:	GVSCBT2	150AT/	JGL37150D81AAUO																	
UPS ATING	UPS SKU	APPLICABLE MBC SKU	TRANSFORMER		APPLICABLE BATTERY CABINET		INPUT CURRENT	INPUT CURRENT			NEUTRAL	SYSTEM	32 BATTERIES 40 BATTERIES		SCHNEIDER ELECTRIC)	GVSCBT2ST	ZOUAF																				
(kW)	NUMBER	NUMBER	SPECIFICATION		SKU NUMBERS		(NO	(FULL	PHASE CURRENT	NEUTRAL CURRENT	CURRENT (A)	CURRENT	FULL LOAD					GVSCBT3	_																		
							CHARGING) (A)	CHARGING) (A)	(A)	(A)		(A)	CURRENT	CURRENT	CURRENT	CURRENT		GVSCBT3ST GVSCBT4																			
													@NOMINAL VOLTAGE	@EOD VOLTAGE	@NOMINAL VOLTAGE	@EOD VOLTAGE	MAINS INPUT	GVSCBT4ST	— , .																		
					1								(384V DC)	(307V DC)	(480V DC)	(384V DC)		GVSCBT5	250AT/ J 250AF	GL37250D82AAUO+ AL175JD																	
20	GVSUPS20KGS			GVSCBT1/			25	30	24	42	96	56	54	68	43	54		GVSCBT5ST																			
30	GVSUPS30KGS		60KVA 600/480V AC	GVSCBT1ST	$\overline{3}$	3	3		3															37	45	36	62	144	83	81	102	65	81			ANCE BYPASS CAE	RINET (MBC)
40	GVSUPS40KGS	GVSBP0T50	IN, 208V AC	(32 BLOCKS)	GVSCBT2/	GVSCBT4/	50	60	49	83	192	111	109	136	87	109	HJL36150U31X			NEIDER ELECTRIC)																	
			OUT DY1		GVSCBT3/	GVSCBT5/												05,405,10	MBC SK	U NUMBER																	
50	GVSUPS50KGS				GVSCBT2ST/ GVSCBT3ST	GVSCBT4ST/ GVSCBT5ST	62	74	61	104	240	139	N/A	N/A	109	136		DEVICE ID	GVSBP0T50	GVSBPOT100																	
60	GVSUPS60KGS		100114 1001 10	N/A	(40 BLOCKS)	(40 BLOCKS)	74	89	73	125	288	167	N/A	N/A	130	163				MCCB 250A 3P																	
80	GVSUPS80KGS	GVSBP0T100	100kVA 480V AC IN, 208V AC OUT DY1	N/A			99	119	97	166	384	222	N/A	N/A	174	217	JJL36250U31X	UIB	MCCB 150A 3P	J FRAME																	
100	GVSUPS100KGS						124	149	121	208	480	278	N/A	N/A	217	271			H FRAME (HJF36150CU31X) MCCB 150A 3P																	

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS. \triangle 3. TWO CABINETS MUST BE PRESENT TO SUPPORT LOADS ABOVE 60kW, DUE TO CABINET CB RATING.

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TITLE: GALAXY VS Input: 480V/600V AC 3PH, 60Hz, SING Output; 480V/208V AC 3PH 60H BATTERY SOLUTION AND SITE F Schneider Gelectric

TITLE: GALAXY VS Input: 480V/600V AC 3PH, 60Hz, SIN	gle/dual feed	dwg no: GVSUP	S10K10	OLGFS-SD	REV. 5
Output: 480V/208V AC 3PH 60 BATTERY SOLUTION AND SITE	Hz, 10-100kW PLANNING	DRAWN BY:	BALA	11-NOV-19	ANGLE
		ENGINEER:	ΗN	21-NOV-19	PROJECTION
PROJECT: DRAWINGS	SHEET 100F10	APPROVED BY:	S V	21-NOV-19	N.A

BATTERY CABINET



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO 161 - Networking upgrades

October 16, 2020





Change Request Description

Request ID	CTRMA-WO-161		
Request Date	10/16/2020		
System Module	Networking upgrades		
Change Type	Hardware/equipment		
Description			
Networking upgrad	les for the CTRMA maintenar	nce program.	
Affected Project			
🛛 183A			
290			
🛛 Морас			
SH71			
☐ 45SW			
☐ 183S			
Affected Requirer	ments		
Networking			
Affected System	Processes:		
Networking			
Description of the			
		ance program. Upgrades by loo inventory - upgrade by location -	
	rade, Kapsch will provide a to network failover test plan.	est plan to validate the networki	ng functionality, this will
Kapsch will also pro	ovide a project schedule. Upo	rade to be completed by June 20	021.
	days from submission.		
Impact	🗌 High	🛛 Medium	Low
Total	\$444,476,42		
Quantity	Quantity is in the referenced by location - 072420.xlsx"	I doc "CTRMA - WO 161 Networ	king inventory - upgrade

Prepared by:	Lisa Gauger	Created :	09/08/2020	Page:	2 of 4
File:	CTRMA WO 161 - Networking upgrades	Last Mod:	10/16/2020	Version:	1.2



System Integration



CTRMA WO 161 - Networking upgrades

	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	SHI	1	\$372,413.00	\$37,241.30	\$409,654.30
2	0	0	\$0.00	\$0.00	\$0.00
3	0	0	\$0.00	\$0.00	\$0.00
4	0	0	\$0.00	\$0.00	\$0.00
5	0	0	\$0.00	\$0.00	\$0.00
6	0	0	\$0.00	\$0.00	\$0.00
7	0	0	\$0.00	\$0.00	\$0.00
		-	-		4.00 67.00

Total Hardware \$409,654.30

	Labor	No. of Hours	Hr. Contract Rate	Total
1	Software Engineer	0.00	\$157.59	\$0.00
2	System/Hardware Engineer	32.00	\$172.52	\$5,520.64
3	Technician	0.00	\$120.90	\$0.00
4	Business Analyst	0.00	\$157.59	\$0.00
5	Database Administrator	0.00	\$224.14	\$0.00
6	Documentation Clerk	10.00	\$161.66	\$1,616.60
7	Testing Engineer	0.00	\$171.17	\$0.00
8	Network Engineer/Administrator	160.00	\$156.22	\$24,995.20
9	Project Manager	12.00	\$224.14	\$2,689.68
	Total Hours	: 214.00	Total Labor:	\$34,822.12

Subcontractor	Quantity	Cost	10% Markup	Extended Price
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
0	0	\$0.00	\$0.00	\$0.00
		Tot	al Subcontractor	\$0.00

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM-Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total OD	Cs / Travel	\$0.00

TOTAL PRICE

\$444,476.42

Prepared by:	Lisa Gauger	Created :	09/08/2020	Page:	3 of 4
File:	CTRMA WO 161 - Networking upgrades	Last Mod:	10/16/2020	Version:	1.2





CTRMA WO 161 - Networking upgrades

Client Accep	tance:
Client name	
Date	
Signature	
-	
Kapsch Acce	eptance
Name	
Date	
Signature	
-	

1 Reference Documents:

CTRMA - WO 161 Networking inventory - upgrade by location - 072420.xlsx

2 Document Version History

Version	Created	Created by	Comments
1.0	09/08/2020	Lisa Gauger	Initial Submission
1.1	10/07/2020	Lisa Gauger	Edited description of the solution to include a failover
			test plan. Also edited the hours and pricing.
1.2	10/16/2020	Lisa Gauger	Updated Request ID to include WO-161

Prepared by:	Lisa Gauger	Created :	09/08/2020	Page:	4 of 4
File:	CTRMA WO 161 - Networking upgrades	Last Mod:	10/16/2020	Version:	1.2

Line	ES (LINES 60 - 90) Product	Cost ea	Total	Markup		Total for	location
	Cisco DNA Automation Quick						
	Start Impleme						
	Cisco Systems - Part#: ASF-						
	60 EN1-G-AUTO-IMP	\$37,527.00	\$37,527.00	\$	3,752.70	\$	41,279.70
	DNA CENTER APPL GEN 2				-		
	Cisco Systems - Part#: DN2-						
	61 HW-APL	\$29,855.00	\$29,855.00	\$	2,985.50	\$	32,840.50
	SOLN SUP 24X7X4 DNA						
	CENTER APPL GEN 2						
	Cisco Systems - Part#: CON-						
	62 SSSNP-DN2HWPL	\$7,889.00	\$23,667.00	\$	2,366.70	\$	26,033.70
	ISE VIRTUAL MACHINE						
	SMALL						
	Cisco Systems - Part#: R-ISE-						
	63 VMS-K9=	\$2,188.00	\$2,188.00	\$	218.80	\$	2,406.80
	SOLN SUP SWSS ISE VIRTUAL						
	MACHINE SMALL						
	Cisco Systems - Part#: CON-						
	64 ECMUS-RISEV9SM	\$1,267.00	\$3,801.00	\$	380.10	\$	4,181.10
	CATALYST 9200 24PT POE+						
	NTWK ADVANTAGE						
	Cisco Systems - Part#: C9200-						
	65 24P-A	\$1,006.00	\$2,012.00	\$	201.20	\$	2,213.20
	CATALYST 9200 4 X 1G NTWK						
	MOD						
	Cisco Systems - Part#: C9200-						
	66 NM-4G	\$222.00	\$444.00	\$	44.40	\$	488.40
	CATALYST 9200 AND 9200L						
	STACK MOD						
	Cisco Systems - Part#: C9200-						
	67 STACK-KIT	\$572.00	\$1,144.00	\$	114.40	\$	1,258.40
	600W AC Config 6 Power						
	Supply - Secondar						
	Cisco Systems - Part#: PWR-						
	68 C6-600WAC/2	\$543.00	\$1,086.00	\$	108.60	\$	1,194.60
	C9200 DNA Premier, 24-Port,						
	3 Year Term						
	Cisco Systems - Part#: C9200-						
	69 DNA-P-24-3Y	\$934.00	\$1,868.00	\$	186.80	\$	2,054.80
	Aviem Cisco SED 10C LD						
	Axiom Cisco SFP-10G-LR=						
	Compatible - SFP+						
	transceiver module						
	(equivalent to:						
	Cisco SFP-10G-LR=) -						
	10GBase-LR - TAA Compliant -						
	for Cisco Nexus 93180YC-FX,						
	9336C-FX2, 9372PX-E						
	Axiom Memory Solutions -	4000	¢0.000.00			<u>^</u>	
	70 Part#: SFP-10G-LR-AX	\$299.00	\$2,990.00	Ş	299.00	Ş	3,289.00

Axiom Cisco SFP-10G-ER= Compatible - SFP+ transceiver module (equivalent to: Cisco SFP-10G-ER=) - 10 GigE - 10GBase-ER - TAA Compliant						
- for Cisco Nexus 93180YC-FX, 9336C-FX2, 9372PX-E Axiom Memory Solutions -	61 240 00	<i>\$1.000.00</i>				E 405 CO
71 Part#: SFP-10G-ER-AX CATALYST 9200 24PT POE+ NTWK ESSENTIALS Cisco Systems - Part#: C9200-	\$1,249.00	\$4,996.00	Ş	499.60	Ş	5,495.60
72 24P-E CATALYST 9200 4 X 10G NTWK MOD	\$1,341.00	\$4,023.00	\$	402.30	\$	4,425.30
Cisco Systems - Part#: C9200- 73 NM-4X CATALYST 9200 AND 9200L STACK MOD	\$871.00	\$2,613.00	\$	261.30	\$	2,874.30
Cisco Systems - Part#: C9200- 74 STACK-KIT C9200 DNA ESSENTIALS 24PT 3YR TERM LIC	\$572.00	\$1,716.00	\$	171.60	\$	1,887.60
Cisco Systems - Part#: C9200- 75 DNA-E-24-3Y 600W AC Config 6 Power Supply - Secondar	\$266.00	\$798.00	\$	79.80	\$	877.80
Cisco Systems - Part#: PWR- 76 C6-600WAC/2 CATALYST 9300 24PT POE+ NTWK ADVANTAGE	\$543.00	\$1,629.00	\$	162.90	\$	1,791.90
Cisco Systems - Part#: C9300- 77 24P-A CATALYST 3750X AND 3850	\$2,577.00	\$2,577.00	\$	257.70	\$	2,834.70
STACK PWR CBL 30 Cisco Systems - Part#: CAB- 78 SPWR-30CM C9300 DNA Premier, 24-Port,	\$42.00	\$42.00	\$	4.20	\$	46.20
3 Year Term Cisco Systems - Part#: C9300- 79 DNA-P-24-3Y	\$1,245.00	\$1,245.00	\$	124.50	\$	1,369.50
50CM TYPE 1 STACKING CBL Cisco Systems - Part#: STACK- 80 T1-50CM	\$44.00	\$44.00	\$	4.40	\$	48.40
PLUGGABLE USB3 SSD STOR Cisco Systems - Part#: SSD- 81 120G 715W AC 80+ PLATINUM	\$653.00	\$653.00	\$	65.30	\$	718.30
CONFIG 1 SECONDARY Cisco Systems - Part#: PWR- 82 C1-715WAC-P/2 CATALYST 9300 8 X 10GE	\$545.00	\$545.00	\$	54.50	\$	599.50
NTWK MOD Cisco Systems - Part#: C9300- 83 NM-8X	\$1,110.00	\$1,110.00	\$	111.00	\$	1,221.00

CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- 85 SPWR-30CM \$42.00 \$	\$	409,654.30
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$ 257.70 \$ 2,834.74 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- 85 SPWR-30CM \$42.00 \$42.00 \$ 4.20 \$ 4.20 \$ 46.24 C9300 DNA Premier, 24-Port, 3 Year Term Cisco Systems - Part#: C9300- 86 DNA-P-24-3Y \$1,245.00 \$1,245.00 \$ 124.50 \$ 1,369.50 SOCM TYPE 1 STACKING CBL Cisco Systems - Part#: STACK- 87 T1-50CM \$44.00 \$44.00 \$ 4.40 \$ 48.44 PLUGGABLE USB3 SSD STOR Cisco Systems - Part#: STACK- 88 120G \$653.00 \$653.00 \$ 655.30 \$ 718.34 CATALYST 9300 4 X 1GE NTWK MOD Cisco Systems - Part#: C9300- 89 NM-4G \$222.00 \$222.00 \$ 222.00 \$ 22.20 \$ 244.24 715W AC 80+ PLATINUM CONFIG 1 SECONDARY Cisco Systems - Part#: PWR- 90 C1-715WAC-P/2 \$545.00 \$545.00 \$ 545.00 \$ 545.00 \$ 599.50	Grand Total Total Markup Total fe	or all locations
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$257.70 \$2,834.74 CATALYST 3750X AND 3850 STACK PWR CBL 30 STACK PWR CBL 30 Stack PWR 30CM \$42.00 \$42.00 \$4.20 \$4.20 \$46.20 C9300 DNA Premier, 24-Port, 3 Year Term Stack PWR-30CM \$42.00 \$1,245.00 \$124.50 \$1,369.50 86 DNA-P-24-3Y \$1,245.00 \$1,245.00 \$124.50 \$1,369.50 50CM TYPE 1 STACKING CBL Cisco Systems - Part#: C9300- \$44.00 \$44.00 \$44.40 \$48.40 PLUGGABLE USB3 SSD STOR Cisco Systems - Part#: STACK- \$771.50CM \$44.00 \$44.00 \$44.40 \$48.40 PLUGGABLE USB3 SSD STOR CATALYST 9300 4 X 1GE \$653.00 \$653.00 \$653.00 \$653.00 \$653.00 \$718.30 88 1206 \$653.00 \$653.00 \$653.00 \$653.00 \$222.00 \$222.00 \$222.00 \$22.20 \$244.20 89 MM-4G \$222.00 \$222.00 \$222.00 \$24.20 \$24.20 \$244.20 715W AC 80+ PLATINUM CONFIG 1 SECONDARY \$2545.	\$1,060.00 \$ 106.00 \$	1,166.00
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$257.70 \$2,834.74 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- \$42.00 \$42.00 \$4.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.20 \$5.30 \$65.30 \$65.30 \$65.30 \$65.30 \$65.30 \$65.30 \$65.30 \$65.30 \$718.30 \$718.30 \$718.30	Systems - Part#: PWR- SWAC-P/2 \$545.00 \$545.00 \$ 54.50 \$	599.50
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$257.70 \$2,834.70 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- \$42.00 \$44.00 \$44.00 <td>Systems - Part#: C9300- 5 \$222.00 \$222.00 \$ 22.20 \$ AC 80+ PLATINUM</td> <td>244.20</td>	Systems - Part#: C9300- 5 \$222.00 \$222.00 \$ 22.20 \$ AC 80+ PLATINUM	244.20
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$257.70 \$257.70 \$2,834.70 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- 85 SPWR-30CM \$42.00 \$42.00 \$42.00 \$4.20 \$4.20 \$46.20 C9300 DNA Premier, 24-Port, 3 Year Term Cisco Systems - Part#: C9300- 86 DNA-P-24-3Y \$1,245.00 \$1,245.00 \$124.50 \$124.50 \$1,369.50 50CM TYPE 1 STACKING CBL Cisco Systems - Part#: STACK-	Systems - Part#: SSD- \$653.00 \$653.00 \$ 65.30 \$ YST 9300 4 X 1GE	718.30
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$ 257.70 \$ 2,834.70 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB- 85 SPWR-30CM \$42.00 \$42.00 \$ 4.20 \$ 46.20 C9300 DNA Premier, 24-Port, 3 Year Term Cisco Systems - Part#: C9300-	Systems - Part#: STACK-	48.40
Cisco Systems - Part#: C9300- 84 24P-A \$2,577.00 \$2,577.00 \$ 257.70 \$ 2,834.70 CATALYST 3750X AND 3850 STACK PWR CBL 30 Cisco Systems - Part#: CAB-	Term Systems - Part#: C9300-	1,369.50
	Systems - Part#: C9300- \$2,577.00 \$2,577.00 \$ 257.70 \$ YST 3750X AND 3850 PWR CBL 30 Systems - Part#: CAB-	2,834.70 46.20

Shipping



System Integration Agreement

CTRMA Toll Systems Integration



CTRMA WO-162, MOPAC DP10 and DP11 Damage

October 16, 2020



CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

WO-CTRMA-162- DP10 and DP11 Damage_v1.4.docx

Change Request Description

Request ID	CTRMA-WO-162						
Request Date	10/16/2020						
System Module	DP Cabinets 10&11						
Change Type	Equipment						
Description							
	Damaged Cabinets						
Affected Project							
Ancolouriojeet							
□ 183	□ 183						
□ 290	290						
🖂 Mopac							
□ SH71							
Affected Requirements							
ELCC/ Rates							
Affected System	Processes:						
MOPAC Rates							
Description of the	e Solution						
Repla							
Terminate Fiber in Cabinet.							
	for Traffic control will be invoiced as a pass-through (plus mark-up)						
	and is not to exceed \$5,500.						
 Kapsch to provide as-built to include the updated cabinet redesign. 							
Impact							
Impact Total							
	High Dedium Low \$23,555.35 Pricing good for 60 Days from requested date						

Prepared by:	Timothy Duke	Created:	09/29/2020	Page:	2 of 4
File:	CTRMA WO-162-DP10 and DP11 Damage	Last Mod:	10/16/2020	Version:	1.4



System Integration

WO-CTRMA-162- DP10 and DP11 Damage_v1.4.docx



	Materials / Equipment	Quantity	Price	10% Markup	Extended Price
1	Mini-Fort Cabinet (9U) - Aluminum Powder Coated - Beige	2	\$1,643.98	\$164.40	\$1,808.38
2	Pole Mount Bracket for Mini-Fort (Field Drill 2- 1 1/2" Hole into 4 1/2" MVD Pole)	2	\$53.64	\$5.36	\$59.00
3	Wall Mount Bracket for Mini-Fort (Truss Mount to Unistrut)	2	\$116.72	\$11.67	\$128.39
4	Equipment Panels (7U)	2	\$156.38	\$15.64	\$172.02
5	Din rail - 2m	1	\$10.00	\$1.00	\$11.00
6	120VAC SPST DIN Rail Breaker	1	\$30.49	\$3.05	\$33.54
7	CITEL 120VAC Surge Suppressors	1	\$100.00	\$10.00	\$110.00
8	ORION Industrial Equipment Fans	2	\$44.00	\$4.40	\$48.40
9	Thermostat (Normally Open) closes on temp rise	2	\$42.00	\$4.20	\$46.20
10	DIN Rail Duplex Outlet (120V/15A) - NEMA 5-15R	1	\$37.00	\$3.70	\$40.70
11	Weather Resistant Lightning Surge Protector for RS-485 & 24VDC Power Lines	2	\$103.56	\$10.36	\$113.92
12	Industrial Ethernet to Serial Server/Converter	3	\$260.85	\$26.09	\$286.94
13	DB9 Breakout Board With Spring Connection Terminals	4	\$98.00	\$9.80	\$107.80
14	100Base FX Switch (SM - 15 km - ST Connectors) - 4 Copper Ports	1	\$477.00	\$47.70	\$524.70
15	SM Duplex ST to ST - 3m	6	\$90.00	\$9.00	\$99.00
16	CAT5e Patch Cable (1m) (Not Plenum)	4	\$7.44	\$0.74	\$8.18
17	AC-DC PS, 120W, 24DC, 5A - DIN Rail Mnt.	1	\$115.53	\$11.55	\$127.08
				Total Hardware	\$3,725.25

	Labor		No. of Hours	Hr. Contract Rate	Total
1	Software Engineer		0.00	\$157.59	\$0.00
2	System/Hardware Engineer		30.00	\$172.52	\$5,175.60
3	Technician		0.00	\$120.90	\$0.00
4	Business Analyst		0.00	\$157.59	\$0.00
5	Database Administrator		0.00	\$224.14	\$0.00
6	Documentation Clerk		10.00	\$161.66	\$1,616.60
7	Testing Engineer		0.00	\$171.17	\$0.00
8	Network Engineer/Administrator		0.00	\$156.22	\$0.00
9	Project Manager		10.00	\$224.14	\$2,241.40
		Total Hours:	50.00	Total Labor:	\$9,033.60

Hours:

Subcontractor	Quantity	Cost	10% Markup	Extended Price
Cabinet removal and install	1	\$2,100.00	\$210.00	\$2,310.00
Fiber termination and testing	1	\$2,715.00	\$271.50	\$2,986.50
MOT	2	\$5,000.00	\$500.00	\$5,500.00

Total Subcontractor

\$10,796.50

	ODCs / Travel	Quantity	Cost	10% Markup	Extended Price
1	Air Fare	0	\$0.00	\$0.00	\$0.00
2	Mileage	0	\$0.00	\$0.00	\$0.00
3	Lodging	0	\$0.00	\$0.00	\$0.00
4	Per Diem	0	\$0.00	\$0.00	\$0.00
5	Car Rental	0	\$0.00	\$0.00	\$0.00
6	PM - Other/Misc.	0	\$0.00	\$0.00	\$0.00
7	Warr/Maint - Other/Misc.	0	\$0.00	\$0.00	\$0.00
			Total OD	Cs / Travel	\$0.00

Total ODCs / Travel

TOTAL PRICE

\$23,555.35

Prepared by:	Timothy Duke	Created:	09/29/2020	Page:	3 of 4
File:	CTRMA WO-162-DP10 and DP11 Damage	Last Mod:	10/16/2020	Version:	1.4





Client Accep	itance:	
Client name		
Date		
Signature		
-		
Kapsch Acce	eptance	
Name		
Date		
Signature		
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1 Reference Documents

n/a

2 Document Version History

Version	Created	Created by	Comments
1.0	09/29/2020	Timothy Duke	Initial Submission based on e-mail.
1.1	10/06/2020	Timothy Duke	Update to include as-built of cabinet redesign
1.2	10/09/2020	Lisa Gauger	Updated logo, formatting, and clarified the MOT cost description.
1.3	10/13/2020	Lisa Gauger	Update logo in header, Surge Protector cost, and overall total to match.
1.4	10/16/2020	Lisa Gauger	Updated doc naming details from CO to WO

Prepared by:	Timothy Duke	Created:	09/29/2020	Page:	4 of 4
File:	CTRMA WO-162-DP10 and DP11 Damage	Last Mod:	10/16/2020	Version:	1.4

CTRMA BASELINE BOM BUILD

CININA DASELINE		
DATE:	August 2, 2020	
Revision #	F-1	
REVISED BY:	M. S. deSouza	

BOM LEGEND

Material Cost of System Components Material Cost Engineering Estimate (Based on either Project Specific Fee Proposals or Past Fee Proposals for related work) Proofed Quantities to Design - Request Quotes ITEM PROCURRED (Note whether PH 1 or PH 2 or Both PH 1 & PH 2 procurment) Estimate PR

OADSIDE CABINET(S)				SYS	DP-10 [OP-11 TC	tal	Spare	GT	UNIT COST			VENDOR/QUOTE#	UNIT	COST	EXTENDED) COST
a Mini-Fort Cabinet (9U) - Aluminum Powder Coated - Beige	American Products	AM-202422-9RU-F	EA		1	1	2		2	722.27	1,444.54 AmProd	Corridor Cabinets	AMPROD E15882	\$	821.99	\$	1,643.
20" Hieght x 24" Width x 22" Depth - 19" Rack Rails w/Fan Provision	American Products		Incl								0.00 AmProd						
Quad 115V 20A outlets (No Load Center)	American Products		incl								0.00 AmProd						
DO NOT INCLUDE a - 5 position isolated copper ground bar	American Products		Exclude								0.00 AmProd						
Configured to Accept Kapsch Installed 200cfm Fan	American Products		incl								0.00 AmProd						
Includes Door Latch Tool	American Products		incl								0.00 AmProd						
b Mini-Fort Cabinet (16U) - Aluminum Powder Coated Beige	American Products	AM-322822-16RU-F	EA				0		0	875.00	0.00 AmProd						
32" Height x 28" Width x 22" Depth - 19" Rack Rails w/Fan Provision	American Products		incl								0.00 AmProd						
Quad 115V 20A outlets (No Load Center)	American Products		incl								0.00 AmProd						
DO NOT INCLUDE a - 5 position isolated copper ground bar	American Products		incl								0.00 AmProd						
Configured to Accept Kapsch Installed 200cfm Fan	American Products		incl								0.00 AmProd						
Includes Door Latch Tool	American Products		incl								0.00 AmProd						
c Pole Mount Bracket for Mini-Fort (Field Drill 2- 1 1/2" Hole into 4 1/2" MVD Pole)	American Products	AM-2418-PM	ea		1	1	2		2	57.21	114.42 AmProd		AMPROD E15882	\$	26.82	\$	53.6
d Wall Mount Bracket for Mini-Fort (Truss Mount to Unistrut)	American Products	AM-2418-WM	ea		1	1	2		2	26.30	52.60 AmProd	1,611	56 AMPROD E15882	\$	58.36	\$	116.7
e Fiberglass Cabinet	Hoffman		EA				0		0		0.00 AmProd						
32" Height x 28" Width x 22" Depth - 19" Rack Rails w/Fan Provision	Hoffman		incl								0.00 AmProd						
5 position isolated copper ground bar - for each bay	Hoffman		incl								0.00 AmProd						
f Mini-Fort Cabinet (24U) - Aluminum Powder Coated Beige	American Products	AM-462418-24RU	EA				0		0	845.00	0.00 AmProd						
46" Height x 24" Width x 18" Depth - 19" Rack Rails w/Fan Provision	American Products		incl								0.00 AmProd						
Quad 115V 20A outlets (No Load Center)	American Products		incl								0.00 AmProd						
5 position isolated copper ground bar - for each bay	American Products		incl								0.00 AmProd						
Configured to Accept Kapsch Installed 200cfm Fan	American Products		incl								0.00 AmProd						
Includes Door Latch Tool	American Products		incl								0.00 AmProd						
Additional 19" Rail	American Products	AM-322418-RR	EA				0		0	150.00	0.00 AmProd						
Mounting Base (6" Plinth)	American Products	AM-62418-GM	EA				0		0	101.00	0.00 AmProd						
g L-Com Cabinet	L-com	NB121005-000DR	EA				0		0	176.00	0.00 SHI						
h Enclosure Pole Mounting Kit- Pole Diameters 4" to 7"	L-com	HGX-PMT28	EA				0		0	63.00	0.00 SHI						
i Cable Grip Bushing (CGB), 0.375 to 0.5" dia, Plated Steel & Neoprene (Coax)	Cooper-Crouse-Hinds	CGB194	EA				0		0	10.06	0.00 Graybar	1,611	56				

2A	EQUI	PMENT PANEL ASSESORIES (CABINET & PANEL COMPONENTS)				SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST	TOTAL COST	
	а	Equipment Panels (7U)	Brooks Industrial Coatings	7U - Fabricate/Powder Coat	ea		1	1	2		2	70.00	140.00	Amte>
	b	Equipment Panels (11U)	AMTEX	11U - Fabricate	ea				0		0	158.17	0.00	Amtex
	с	Din rail - 2m	Indutrial Controls	351525	ea	1			1		1	100.00	100.00	BG Tec
	d	120VAC SPST DIN Rail Breaker	Square D	Q0U115	ea		1		1		1	30.35	30.35	GrayBa
	е	Power Distribution Block (600V-115A)	Square D	9080LBA361101	ea				0		0	19.10	0.00	GrayBa
	f	Load Center Equipment Ground Bar	Square D	PK5GTA	ea				0		0	7.51	0.00	GrayBa
	g	CITEL 120VAC Surge Suppressors	CITEL	DS240S-120/G	ea				0	1	1	56.00	56.00	CITEL
	h	ORION Industrial Equipment Fans	Orion	OD1238-24HB-XC	ea		1	1	2		2	18.51	37.02	Allied
	i	Thermostat (Normally Open) closes on temp rise	Stego	KTS 011 (01141.0-00)	ea		1	1	2		2	15.51	31.02	BG Tec
	j	DIN Rail Duplex Outlet (120V/15A) - NEMA 5-15R	Weidmuller	6720005430	ea				0	1	1	27.70	27.70	GrayBa
	Note:	Equipment Panels for both cabinets will be provided by 1835 project, we inherited 22.1	1U spares. Two 3 1/2	J Panels will be provided per ca	binet.									

EP Build	Brooks Industrial Coatings Email Quote	\$ 78.19	\$ 156.38
	BG Tech 216259	\$ 10.00	\$ 10.00
	Graybar 235980703	\$ 30.49	\$ 30.49
	BG Tech 216259	\$ 100.00	\$ 100.00
	BG Tech 216259	\$ 22.00	\$ 44.00
	BG Tech 216259	\$ 21.00	\$ 42.00
422.09	BG Tech 216259	\$ 37.00	\$ 37.00

UIF	PMENT PANEL ASSESORIES (TERMINAL BLOCKS/WIRE/MISALLANEOUS)				SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST	TOTAL COST
9	Connectors, Modular Plugs, RJ45 / 8P8C	CommScope	6-554720-3	ea				0		0		0.00 BG Tee
С	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Black (100/box)	Industrial Controls	ER4Black	box				0		0	1.00	0.00 BG Tee
С	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, White	Industrial Controls	ER4White	box				0		0	1.00	0.00 BG Tee
ł	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Green	Industrial Controls	ER4Green	box				0		0	1.00	0.00 BG Tee
5	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Yellow	Industrial Controls	ER4Yellow	box				0		0	11.00	0.00 BG Tee
f	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Grey	Industrial Controls	ER4Grey	box				0		0	1.00	0.00 BG Tee
3	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Orange	Industrial Controls	ER4Orange	box				0		0	1.00	0.00 BG Te
1	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Blue	Industrial Controls	ER4Blue	box				0		0	1.00	0.00 BG Te
i	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Brown	Industrial Controls	ER4Brown	box				0		0	1.00	0.00 BG Te
I	Feedthrough Terminal Block, ER4 (600V/30A), 26-10AWG, Beige	Industrial Controls	ER4Beige	box				0		0	1.00	0.00 BG Te
k	Partition Terminal Block, for ER2.5, ER4, ER6, ER10	Industrial Controls	SP2.5-10Beige	box				0		0	1.00	0.00 BG Te
	Cross Connector Terminal Block, 10 point Jumper Bar fits ER4	Industrial Controls	CC4/10	box				0		0	1.00	0.00 BG Te
n	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Black	Alpha / Belden	1555/Black / 9981-010100	lf				0		0	1.00	0.00 Allied
n	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, White	Alpha / Belden	1555/White / 9981-009100	lf				0		0	1.00	0.00 Allied
D	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Green	Alpha / Belden	1555/Green / 9981-005100	lf				0		0	1.00	0.00 Allied
С	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Yellow	Alpha / Belden	1555/Yellow / 9981-004100	lf				0		0	1.00	0.00 Allied
4	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Orange	Alpha / Belden	1555/Orange / 9981-003100	lf				0		0	1.00	0.00 Allied

EP Build

r	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Brown	Alpha / Belden	1555/Brown / 9981-001100	lf			()	0	1.00	0.00	Allied
s	Wire, Hookup, 18 AWG, Strand, 1000V/300V, 80C, Blue	Alpha / Belden	1555/Blue / 9981-006100	lf			(0	1.00	0.00	Allied
t	Wire, Hookup, 16 AWG, Strand, 1000V/300V, 80C, Green	Alpha / Belden	1557/Green / 9980-005100	lf			()	0	1.00	0.00	Allied
u	Wire, Hookup, 16 AWG, Strand, 1000V/300V, 80C, White	Alpha / Belden	1557/White / 9980-009100	lf			(0	1.00	0.00	Allied
٧	Wire, Hookup, 16 AWG, Strand, 1000V/300V, 80C, Black	Alpha / Belden	1557/Black / 9980-010100	lf			()	0	1.00	0.00	Allied
w	Polyurethane foam sealant, 12 oz cans	DAP		ea			(0	1.00	0.00	BG Tech
х	12 in. Heavy-Duty Cable Ties - BLACK	Gardner Bender		ea			()	0	1.00	0.00	BG Tech
У	17 in. Heavy-Duty Cable Ties - BLACK	Gardner Bender		ea			()	0	1.00	0.00	BG Tech
z	73B Orange wire nuts	Ideal	30-1073J	ea			()	0	1.00	0.00	BG Tech
аа	Silicone II 9.8-ounce window and door caulk clear	GE		ea			()	0	1.00	0.00	BG Tech
ab	Duct Seal Compound Plugs (10-Pack)	Gardner Bender	DS-110	ea			()	0	3.75	0.00	BG Tech
ас	Safe-Flo 8 oz. Lead-Free Silver Solder	Oatey	290242	ea			()	0	25.36	0.00	BG Tech
ad	8 oz. No. 5 Lead-Free Paste Flux	Oatey	300142	ea			(0	7.00	0.00	BG Tech
ae	Green 12 Solid THHN Wire	Southwire	11591580	lf			()	0	0.21	. 0.00	BG Tech
af	12 - 10 AWG, #8 - 10 Stud Size Yellow Spade Terminals	Gardner Bender	15-116	ea			()	0	2.50	0.00	BG Tech
ag	12 - 10 AWG Yellow Butt Splice	Gardner Bender	15-126	ea			()	0	3.30	0.00	BG Tech
ote	The existing terminal blocks at DP 10 should not be damaged, however Install Team has	s enough spares on-ha	nd to fill the minimum needed t	or DP-10	to mate	ch color	standard					

Note: The existing terminal blocks at DP 10 should not be damaged,	however Install Team has enough spares on-hand to fill the minimum needed for DP-10 to match color standard	

4 CORRIDOR DMS

b VFC Controller

a Dynamic Sign Assembly (Front Access - Ready for Install)

NOLE	. The existing terminal blocks at bir 10 should not be damaged, nowever install realiting	s enough spares on na	nu to nil the minimum needed	101 01-10	to mat	con cono	i stanua	iu ii			-		4
COR	RIDOR CCTV				SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST		1
а	COHU HD 4260 RISE, H.264.1080P, 30X DAY/NIGHT, DEFOG, AUTO-FOCUS	COHU	4261-00	ea				0		0	3,352.00	0.00	сони
b	RJ45 IP67 COUPLER	COHU	7610203-001	ea				0		0	30.00	0.00	сони
с	POE++ INJECTOR, 70 W, UNIVERSAL 120VAC INPUT, TS2 RATED	COHU	7412007-003	ea				0		0	105.00	0.00	сони
d	Pelco Pedestal Mount (10")	Pelco	PM2010	ea				0		0	78.93	0.00	GreyE
е	Shielded Cat 6 (SSTP), Burial Rated	Superior Essex	04-001-64	lf				0		0	1.20	0.00	GreyB
f	VI Software License	VI	License Fee	ea				0		0	155.00	0.00	SHI
Mate													4

VI	License Fee	ea				0		0	155.00	0.00	SHI
						_					
			SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST	TOTAL COST	
Daktronics	VM-2420-27-110-66-A	EA				0		0	53,850.00	0.00	Daktronics
		incl				0		0			Daktronics
		incl				0		0			Daktronics
		incl				0		0			Daktronics

· .								•			1		Duktionics
:	Two Beacons w/Brackets for attachement			incl				0		0			Daktronics
	Two Spare LED Modules			incl				0		0			Daktronics
RRI	IDOR MVD				SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST	TOTAL COST	
-	Smartsensor HD	Wavetronix	HS-126	EA				0		0	5,480.00	0.00	TwinCrest
,	Sensor Pigtails (40')			EA				0		0	265.00	0.00	TwinCres
	Sensor Home-Run Cable			LF				0		0	1.00	0.00	TwinCres
	MVD Pole Mount Brackets		WX-SS-611	EA				0		0	190.00	0.00	TwinCres
	Truss/Column Assembly (Bracket Kit)		SPECIAL	EA				0		0	75.00	0.00	TwinCres
	4" Pipe with Tee	":		incl									TwinCres
:	RVSD Mount (Special CH)			incl									TwinCre
1	C-Clamp (SS) (2 each)	Gibson	1150	EA				0		0	32.00	0.00	BG Tech
	Weather Resistant Lightning Surge Protector for RS-485 & 24VDC Power Lines	LCOM	AL-D15P24DW	EA				0	2	2	58.00	116.00	SHI
	Click 200 Module (Equivalent)	Cooper Crouse-Hinds M	ZB91654	EA				0		0	136.27	0.00	AWC
:	Click 200 Module (Equivalent) Long Haul Surge suppressor w/bracket	LCOM	ALS-D25P24DW/HGX-PMT24	EA				0		0	128.00	0.00	SHI
	DIN mount adaptor	NTRON	NPM0DRM0	EA				0		0	12.00	0.00	SHI
n	Click 301 Terminal Server (Equivalent)	MOXA	NPORT 5130A-T	EA				0		0	194.00	0.00	SHI
1	Industrial Ethernet to Serial Server/Converter	Serial Comm	ETH-SER-EE9	EA		1	1	2	1	3	89.95	269.85	Serial Co
	DB9 Breakout Board With Spring Connection Terminals	WINFORD	BRKG9F-R-N	EA		2	2	4		4	80.00	320.00	Graybar
	30 cm Power Cable		CBL-PJ21NOPEN-BK-30	EA				0		0	9.00	0.00	SHI
-	35mm DIN Mounting Kit (Use to mount MOXA Media Convertor		DK35A	EA				0		0	5.00	0.00	SHI
ſ	Mini DB9F-to-TB		501155	EA				0		0	112.00	0.00	SHI

Graybar 235980703	\$	51.78	s	103.56
Serial Comm QUOTE Graybar 235980703	\$ \$	86.95 24.50		260.85 98.00

ORF	RIDOR FIELD NETWORK				SYS	DP-10	DP-11	Total	Spare	GT	UNIT COST	TOTAL COST
а	4 port Managed Ethernet Switch/Layer II	CISCO	3000-4tc	EA				0		0	845.48	0.00
а	Cisco Solution Support - extended service agreement	CISCO	CON-SSSNT-IE34TC	EA				0		0	94.55	0.00
b	1000BASE (LC/1310nm/10km)	Axiom	GLC-LH-SM-AX	EA				0		0	42.00	0.00
с	1000BASE (LC/1310nm/40km)	Axiom	GLC-EX-SMD-AX	EA							153.00	0.00
d	100Base FX Switch (SM - 15 km - ST Connectors) - 4 Copper Ports	NTRON/Red Lion	106FXE2-ST-15-MDR	EA		1		1		1	646.00	646.00
е	Media Convertor - SM - 15km - ST Connectors (100Base)	NTRON	102MCE-ST-15-MDR	EA				0		0	367.00	0.00
f	SM Duplex ST to ST - 3m	Quicktron	810-227-003	ea		2	2	4	2	6	9.00	54.00
g	SM Duplex LC to ST - 3m	Quicktron	810-L27-009	ea				0		0	5.00	0.00
h	SM Duplex LC to LC - 3m	Quicktron		ea				0		0	0.00	0.00
i	CAT5e Patch Cable (1m) (Not Plenum)	Any	Any	ea		1	1	2	2	4	0.00	0.00
j	AC-DC PS, 120W, 24DC, 5A - DIN Rail Mnt.	PULS	CP5.241	ea		1		1		1	0.00	0.00
k	24VDC Power Supply (4.2A) (100W)	Lamda	DSP100-24	ea	1 -			0		0		0.00

705.85

0.00

0.00

CCTV

Corridor DMS

Corridor MVD

Cooridor Fiber Network

	BG Tech 216259	\$ 477.00	\$ 477.00
	Graybar 235980703	\$ 15.00	\$ 90.00
	Graybar 235980703	\$ 1.86	\$ 7.44
700.00	BG Tech 216259	\$ 115.53	\$ 115.53



QUOTATION

E000015882

American Products LLC 597 Evergreen Road Strafford MO 65757 United States 417-736-2135

Email : mspringer@amprod.us

Customer / Prospect:

1587

JOJO SEVILLA KAPSCH TRAFFICCOM USA, INC. (1587) ATTN: ACCOUNTS PAYABLE 2855 PREMIERE PARKWAY SUITE F DULUTH GA 30097

Phone:

				Expiration				
Estimate	Terms		Quote Date	Date	Salesperson	Estimator	Custo	omer Currency
E000015882	NET 30		8/12/2020	10/11/2020	Springer, Michael	КС	USD	US Dollar
Line	Quantity	UM Item				Unit Price		Extended Price
1	2.000	EA AM-2028	322-9RU-F			821.99000		1,643.98

AP MINIFORT[®] 20"X28"X22" 9RU W/VENTS

AP MINIFORT[®] enclosure 20" tall x 28" wide x 22" deep 9 RU of equipment rack space. Enclosure finish is compliant to GR-487 paint specifications. Standard powder coating is light texture beige. Enclosure has screened and filtered vents with splash guards and is set up to accept fan option.

Enclosure includes factory installed items below:

- Designed to NEMA 3R standards
- .090 (high strength to weight ratio) aluminum
- Access door has S/S wind guard stops and ground cables
- UL 94 compliant bulb gasket
- Adjustable 19" rack rails (1 set)
- 20 amp quad convenience receptacle
- 5-position aluminum grounding terminal
- (1) S/S ¼ turn latch that is pad lockable
- Base has (4) 1.0" dia knockouts for cable entrance
- Enclosure utilizes all S/S hardware
- Includes door latch tool

2	2.000	EA AM-2418-WM	26.82000	53.64
		WALL MOUNT BRACKET FOR MINI-FORT		
3	2.000	EA AM-2418-PM	58.36000	116.72
		POLE MOUNT BRACKET FOR MINI-FORT		



QUOTATION

E000015882

American Products LLC 597 Evergreen Road Strafford MO 65757 United States 417-736-2135

Email : mspringer@amprod.us

Customer / Prospect:

1587

JOJO SEVILLA KAPSCH TRAFFICCOM USA, INC. (1587) ATTN: ACCOUNTS PAYABLE 2855 PREMIERE PARKWAY SUITE F DULUTH GA 30097

Phone:

			Expiration				
Estimate	Terms	Quote Date	Date	Salesperson	Estimator	Customer Currency	
E000015882	NET 30	8/12/2020	10/11/2020	Springer, Michael	KC	USD US Dollar	

BY ACCEPTING THIS OFFER AND PURCHASING PRODUCTS FROM AMERICAN PRODUCTS L.L.C., THE BUYER AGREES TO THE TERMS AND CONDITIONS FOUND HERE (https://www.amprod.us/sales-terms)							

Sale Amount:	1,814.34
Surcharge:	N/A
Sales Tax:	0.00
Misc Charges:	0.00
Total Amount:	1,814.34

Thank you for the opportunity to submit a quotation. Our quotation is based upon assumed full disclosure of required specifications and is subject to change if your specifications change. *Lead times listed are based on current business levels. Actual ship dates will be acknowledged at receipt of order. Custom Products are not returnable or refundable. – Thank you

	TECHNO	LOGIES	Fax - 512-	12-336-2299	Account # Quote # Date Page	001497 216259 08/07/20 1
285 Suit	osch TrafficCom USA, Inc 5 Premiere Parkway te F uth, GA 30097		Terms Ship Via FOB Reference # Contact	Net 30 Days UPS Ground Shipping Point Jojo Sevilla	Salesperson Ale	x Giles
n #	Item # / Customer Item # Description	Mfg/DC j	Ship Date Request Date	Quantity	Unit Price	Ext Price
1	35152S 4860L103679 35MMX15MMX2M DINRAIL BG Stock	ICD		1	10.00000	10.00
3	DS240S-120/G 4860L103226037 AC 1-phase Type 2 Surge Protector, 120VAC 1 week ARO	CITEL			100.00000	
4	OD1238-24HB-XC 4860L103424018 ORION 120 X 120 X 38MM HIGH FLOW FAN 1 week ARO	ORION		2		
5	01141.0-00 4860L102211006 01141.0-00 - Thermostat, KTS 011 Series, 0°C to +60°C 1 week ARO	STEGO		2		
6	6720005430 4860LI03279015 PWR ENT RCPT NEMA5-15 DIN SCREW 1 week ARO	WEIDMU		1		
7	106FXE2-ST-15-MDR RED 106FXE2-ST-15-MDR 106FXE2-ST-15-MDR;MDR OPT 3 weeks ARO	REDLIO		1	477.00000	477.00
8	CP5.241 4860L103295070 120W, 1PH, 24-28VDC, 5.0-4.3A stock	PULS		1	115.53000	115.53

QUOTE VALID FOR 30 DAY(S)

Authorized Signature

TECHN	OLOGIES	2301 Dente Suite A Austin, TX Phone - 51: Fax - 512-3 Email - ale	78758 2-336-2299	QUO Account # Quote # Date Page	001497 216259 08/07/20 2	N
Kapsch TrafficCom USA, Inc 2855 Premiere Parkway Suite F Duluth, GA 30097		Terms Ship Via FOB Reference #	Net 30 Days UPS Ground Shipping Point	Salesperson Ale	x Giles	
		Contact	Jojo Sevilla			
Item # / Customer Item # Ln # Description	Mfg / DC Re	hip Date equest Date	Quantity	Unit Price	Ext I	rice
			Su Order	btotal: Total:	825.53 825.53	

QUOTE VALID FOR 30 DAY(S)

Authorized Signature

From:	Hernandez Marc
То:	MBX KTC Tolling Solution Center Commodity Team
Cc:	DeSouza Marcelo; Alicea Marion; Webb Michael
Subject:	FW: RFQ - 183S Equipment Panels
Date:	Monday, August 10, 2020 1:29:25 PM
Attachments:	image001.png
	image002.png
	image003.png

Team

In the email below are the quotes and lead times provided by vendor here in Austin for powder coating. They provided quotes for new 7U panels as well but if there is another vendor that can beat them then we go with that vendor.

Brooks Industrial Coatings already have the 11U panels on hand (delivered by the Webb) and are just waiting for a PO to powder coat these panels.

Here are the quotes I requested last week.

Quote 1 PROJECT: 183S PHII-B (BOM)

Qty. 2 7U Equipment Panel - (New Panel) Fabricate and Powder Coat Gray ANSI 61- see attached drawing for dimensions

Quote 2 PROJECT: 290E PHIII – no bom yet

Qty.2 11U Equipment Panel (Existing Panel) Powder coat Gray ANSI 61 – see attached drawing for dimensions

Quote 3 PROJECT: MOPAC - (BOM)

Qty.2 7U Equipment Panel (New Panel) Fabricate and Powder Coat Gray ANSI 61– see attached drawing for dimensions

Quote 4 PROJECT: 183A-Retrofit

Qty.4 11U Equipment Panel (Existing Panel) Powder Coat Gray ANSI 61 – see attached drawing for dimensions

I CC'd Marion so that he is aware of what's happening with the existing panels in inventory.

Marc Hernandez, E.I.T.

Systems Engineer I SC Tolling System Engineering

Phone +1 737 204 7020 | Mobile +1 512 468 7470 marc.hernandez@kapsch.net

Kapsch TrafficCom North America | 7701 Metropolis Dr, Building 14 | Suite 100 | Austin, TX 78744 | USA <u>www.kapsch.net</u>

From: James Brooks <jbbrooks@bic-texas.com>
Sent: Thursday, August 6, 2020 3:13 PM
To: Hernandez Marc <Marc.Hernandez@kapsch.net>
Subject: RE: RFQ - 183S Equipment Panels

Hello Marc, fabrication lead time is 2 weeks, and the powder coating is 2-4 production days.

Thanks James B. Brooks Brooks Industrial Coatings

www.bic-texas.com

512-990-5333 ex 3 Drop-Off and Pick-up Orders: Mon – Thurs 7:30am – 4:30pm Friday 7:30am – 12:00 Noon While the main office is open on Friday, we are <u>not</u> in production.

From: Hernandez Marc <<u>Marc.Hernandez@kapsch.net</u>>
Sent: Thursday, August 6, 2020 9:56 AM
To: James Brooks <<u>jbbrooks@bic-texas.com</u>>
Subject: RE: RFQ - 183S Equipment Panels

James what is the lead times?

Marc Hernandez, E.I.T. Systems Engineer I | SC Tolling System Engineering

Phone +1 737 204 7020 | Mobile +1 512 468 7470 marc.hernandez@kapsch.net

Kapsch TrafficCom North America | 7701 Metropolis Dr, Building 14 | Suite 100 | Austin, TX 78744 | USA <u>www.kapsch.net</u>



From: James Brooks <<u>jbbrooks@bic-texas.com</u>>
Sent: Wednesday, August 5, 2020 4:33 PM
To: Hernandez Marc <<u>Marc.Hernandez@kapsch.net</u>>
Subject: RE: RFQ - 183S Equipment Panels

Hello Marc, I have pricing below. If you have any questions please give me a call.

Qty. 2 7U Equipment Panel - (New Panel) Fabricate and Powder Coat Gray ANSI 61- see attached drawing for dimensions Fabrication: \$60.22, Powder Coat: \$17.97 each

Qty.2 11U Equipment Panel (Existing Panel) Powder coat Gray ANSI 61 – see attached drawing for dimensions: \$20.16 each

Qty.2 7U Equipment Panel (New Panel) Fabricate and Powder Coat Gray ANSI 61– see attached drawing for dimensions: Fabrication: \$60.22 each, Paint: \$17.97 each.

Qty.4 11U Equipment Panel (Existing Panel) Powder Coat Gray ANSI 61 – see attached drawing for dimensions : \$20.16 each

Minimum lot charge for Fabrication \$150. Minimum lot charge for Powder Coat is \$150.

Thanks James B. Brooks Brooks Industrial Coatings <u>www.bic-texas.com</u> 512-990-5333 ex 3 Drop-Off and Pick-up Orders: Mon – Thurs 7:30am – 4:30pm Friday 7:30am – 12:00 Noon While the main office is open on Friday, we are <u>not</u> in production.

From: Hernandez Marc <<u>Marc.Hernandez@kapsch.net</u>>
Sent: Tuesday, August 4, 2020 4:34 PM
To: jbbrooks@bic-texas.com

Subject: RE: RFQ - 183S Equipment Panels

James,

I need three separate quotes:

Quote 1 PROJECT: 183S PHII-B

Qty. 2 7U Equipment Panel - (New Panel) Fabricate and Powder Coat Gray ANSI 61- see attached drawing for dimensions

Quote 2 PROJECT: 290E PHIII

Qty.2 11U Equipment Panel (Existing Panel) Powder coat Gray ANSI 61 – see attached drawing for dimensions

Quote 3 PROJECT: MOPAC

Qty.2 7U Equipment Panel (New Panel) Fabricate and Powder Coat Gray ANSI 61– see attached drawing for dimensions

Quote 4 PROJECT: 183A-Retrofit

Qty.4 11U Equipment Panel (Existing Panel) Powder Coat Gray ANSI 61 – see attached drawing for dimensions

Marc Hernandez, E.I.T.

Systems Engineer I | SC Tolling System Engineering

Phone +1 737 204 7020 | Mobile +1 512 468 7470 marc.hernandez@kapsch.net

Kapsch TrafficCom North America | 7701 Metropolis Dr, Building 14 | Suite 100 | Austin, TX 78744 | USA <u>www.kapsch.net</u>



From: jbbrooks@bic-texas.com <jbbrooks@bic-texas.com> Sent: Wednesday, July 22, 2020 11:15 AM To: Hernandez Marc <<u>Marc.Hernandez@kapsch.net</u>> Subject: RE: RFQ - 183S Equipment Panels

Hello Marc, it was great talking to you about this project. Down below I have the pricing.

\$20.16 each Minimum lot charge \$150 The lead time is 4-5 production days

moo.eex91-oid.www Brooks Industrial Coatings James B. Brooks **zyneh**

212-990-5333 ex 3

on Friday, we are <u>not</u> in production. nəqo zi əəfflo ninm ədi əlidW nooN 00:21 – mboE:7 ybird $udo \mathcal{E}: t - uvo \mathcal{E}: 2$ sing L - uo Msrop-Qff and Pick-up Orders:

Slaneq tnamqiup3 2581 - DAA :toaldu2 To: jbbrooks@bic-texas.com MA E2:01 0202, 22 ylul, ysbsenbeW :1ne2 From: Hernandez@kapsch.net>

,BninroM

10"). I would like to know a price and lead time. I can have my guys drop off/ pick up these panels. x"02.01 x"01) letem the ADd1 to the made out of 16GA there are metal (19.20) x 20.20 x ا have dty. 6 equipment panels that need power coating (Gray - AUSI 61). I have a drawing I can

<u>marc.hernandez@kapsch.net</u> Phone +1 737 204 7020 Mobile +1 512 468 7470 Systems Engineer I SC Tolling System Engineering Marc Hernandez, E.I.T.

www.kapsch.net ASU | 44/587 XT, inite A | 001 billing 14 | Building 14 | Use A | 001 billing 14 | Use A | USA | USA | USA | USA | USA | USA | 001 billing 14 | 001 billing 14 | USA | 001 billing 14 | 001 billi



contents thereof, and is kindly asked to notify the sender and delete the e-mail immediately. who is not the addressee, one of his employees or an agent entitled to hand it over to the addressee, is informed that he may not use, disclose or reproduce the The information contained in this e-mail message is privileged and confidential and is for the exclusive use of the addressee. The person who receives this message and



1922 WAUKESHA DR PFLUGERVILLE TX 78660-2033 Phone: 512-421-2300 Fax: 512-323-5722

KAPSCH TRAFFICCOM TRANSPORTATION NA INDate: To: 08/12/2020 211 EAST 7TH STREET, STE 800 Proj Name: AUSTIN TX 78701-3366 GB Quote #: 0235980703 Alex Godfrey Attn: Release Nbr: Phone: 000-000-0000 Purchase Order Nbr: QUICKTRON Fax: Additional Ref# Email: justin.halliburton@graybar.com Valid From: 08/11/2020 Valid To: 09/10/2020 Contact: JUSTIN HALLIBURTON Email: justin.halliburton@graybar.com Proposal We Appreciate Your Request and Take Pleasure in Responding As Follows Item Item/Type Quantity Supplier Catalog Nbr Description Price Unit Ext.Price OR-810-227-003 1M ST-ST DPLX **6 EA ORTRONICS** \$90.00 100 \$15.00 1 9/125 FIBER CBL GB Part #: 22085522 UPC #: 88481576027 ***Item Note:*** ** 800 in stock at the factory - Plus Freight MINIATURE 1 EA SQUARE D CO. QOU115 200 \$30.49 1 \$30.49 CIRCUIT BREAKER 120/240V 15A GB Part #: 88243324 UPC #: 78590141850 ***Item Note:*** ** There could be a 2 week leadtime on this item. The factory was shut down durning COVID. Seeing delays Nation wide. **Plus Freight** CAT 5E VIP 3FT **4 EA ALLEN TEL** AT1503EV-BU \$1.86 \$7.44 1 300 RUU GB Part #: 99506148 UPC #: 79915861671 **4 EA WINFORD** NOF WINFORD \$24.50 1 \$98.00 400 ENGINEERING ENGINEERING ***Item Note:*** BRKG9F-R-N ** Stock at factory in Michigan, Plus Frieght **NOF L-COM INC** 2 EA L-COM \$51.78 1 \$103.56 500 ***Item Note:*** AL-D15P24DW Weather Resistant Lightning Surge Protector for RS-485 & 24VDC Power Lines LCOM This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist. To learn more about Graybar, visit our website at www.graybar.com 24-Hour Emergency Phone#: 1-800-GRAYBAR Subject to the standard terms and conditions set forth in this document. Unless otherwise noted, freight terms are F.O.B. shipping point prepaid and bill. Unless noted the estimated ship date will be determined at the time of order placement.

Proposal We Appreciate Your Request and Take Pleasure in Responding As Follows

** Stock at Factory, Plus freight

Total in USD (Tax not included): \$329.49

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

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08/12/2020

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Page 3 of 3

0235980703

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

GRAYBAR ELECTRIC COMPANY, INC. TERMS AND CONDITIONS OF SALE

CHARTERCIPCINC COMPARY, INC.
PRECEASAND SHIPMENTS' Unes on heaving equival, precess for groups allely those in official time of alyment, which hall be nade (2.0.8. Higher point, inc., Carphar', and, Harrash

Signed:

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

GB Quote #:

Alex Godfrey Attn:

To:



QUOTATION

Aug 7, 2020

Prepared by: Giovanni Castiglione **Quote validity**: 60 days

Quotation for:

Kapsch TrafficCom USA Inc. 7701 Metropolis Drive, Suite 100 78744, Austin, Texas

PART NUMBER	DESCRIPTION	QUANT	UNIT PRICE	AMOUNT			
ETH-SER-EE9	Industrial Ethernet to Serial Server/Converter	3	\$86.95	\$260.85			
	PRODUC	T TOTAL:		260.85 USD			
SHIPPING	Free shipping FedEx, UPS and DHL express shipping op	\$0.00					
AVAILIBILTY							
TERMS	NET 30 TERMS						

If you have any questions concerning this quotation, please contact Mordy Naftaly at 1-877-218-7964 ext. 704 or sales@serialcomm.com.

THANK YOU FOR YOUR BUSINESS!

REV 1.3 - 2/22/2018

T



Jeddy Ventures LLC DBA SerialComm 1298 Evans Road Wall Township, NJ 07719 PHONE FAX E-MAIL WEB SITE 1 (877) 218-7964 1 (732) 749-3598 sales@serialcomm.com www.serialcomm.com