



# Traffic Signals

## Material Producers List

Traffic Safety Division – Traffic Management Section

## Traffic Signals

The following materials are pre-qualified for use with the Department's *Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges* and are associated with Department Material Specifications (DMS) referenced in Standard Specification Items 680, 681, 682, 685, and 690, which pertain to the installation of highway traffic signals.

### MATERIAL PRODUCER LIST (MPL) FOR DMS-11120, "VEHICLE SIGNAL HEADS"

The following products are pre-qualified for use on projects where vehicle signal heads are furnished or installed as required by the item descriptive code. Signal heads are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor will furnish products that meet the requirements of the plans and specifications.

#### ***Vehicle Signal Housings***

Producer	Type/Model
Chapel Hill Manufacturing	TPY series (12"/Polycarbonate/Yellow) TAY series (12"/Aluminum/Yellow)
Econolite	TPY series (12"/Polycarbonate/Yellow) TAY series (12"/Aluminum/Yellow)
General Traffic Equipment Corp. (GTE)	T30H-Poly-TxDOT (Polycarbonate/3-section) T40H-Poly-TxDOT (Polycarbonate/4-section) T50H-Poly-TxDOT (Polycarbonate/5-section) T30H-Poly-TxDOT (Aluminum/3-section) T40H-Poly-TxDOT (Aluminum/4-section) T50H-Poly-TxDOT (Aluminum/5-section)
McCain	MTSTP series (Polycarbonate) MTSTA series (Aluminum) PT5X-XXXXXXX-TX (Polycarbonate/5-Section) AT3X-XXXXXXX-TX (Aluminum/3-Section) AT4X-XXXXXXX-TX (Aluminum/4-Section) AT5X-XXXXXXX-TX (Aluminum/5-Section)
Mobotrex Distribution (formerly Brown Traffic)	SA series (Polycarbonate w/Internal Hinges) SG series (Polycarbonate or Aluminum w/external hinges)
North American Signals	PT3X-XXXXXXX-TX (Polycarbonate/3-Section)

	PT4X-XXXXXXX-TX (Polycarbonate/4-Section) PT5X-XXXXXXX-TX (Polycarbonate/5-Section) AT3X-XXXXXXX-TX (Aluminum/3-Section) AT4X-XXXXXXX-TX (Aluminum/4-Section) AT5X-XXXXXXX-TX (Aluminum/5-Section)
Oriux (Peek Traffic Corp. DBA Oriux)	HSS Series (Aluminum) PSS Series (Polycarbonate)
Cubic ITS (Trafficware)	12004 series (Polycarbonate/Yellow) 2007 series (Aluminum/Yellow)

## MATERIAL PRODUCER LIST (MPL) FOR DMS-11121, "TWELVE-INCH LED TRAFFIC SIGNAL LAMP UNIT"

The following products are pre-qualified for use on the projects where 12 in. (300 mm) light emitting diode (LED) traffic signal lamps are furnished or installed as required by the item descriptive code. LED traffic signal lamp units are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### LED Modules

Producer	Color/Style	Type/Model
Dialight	Red Ball	433-1210-003XL (tinted) 433-1210-003XL15 (tinted) 433-1270-003XL (clear) 433-1270-003XL15 (clear)
Dialight	Yellow Ball	433-3230-901XL (tinted) 433-3230-901XL15 (tinted) 433-3270-901XL (clear) 433-3270-901XL15 (clear)
Dialight	Green Ball	433-2220-001XL (tinted) 433-2220-001XL15 (tinted) 433-2270-001XL (clear) 433-2270-001XL15 (clear)
Dialight	Red Arrow	432-1314-001XODTE (tinted) 432-1314-001XOD15 (tinted) 432-1374-001XOD15 (clear)
Dialight	Yellow Arrow	431-3334-901XODTE (tinted) 431-3334-901XOD15 (tinted) 431-3374-901XOD15 (clear)
Dialight	Green Arrow	432-2324-001XODTE (tinted) 432-2324-001XOD15 (tinted) 432-2374-001XOD15 (clear)
Duralight/Trastar	Red Ball	JXC-300HFTR (tinted) JXC300-HFTR03 (tinted) JXC300-HFTR04 (tinted) JXC300-HFR-C (clear)
Duralight/Trastar	Yellow Ball	JXC-300HFTY02 (tinted) JXC300-HFTY03 (tinted)

		JXC300-HFTY04 (tinted) JXC300-HFY-C (clear)
Duralight/Trastar	Green Ball	JXC-300HFTG (tinted) JXC300-HFTG03 (tinted) JXC300-HFTG04 (tinted) JXC300-HFG-C (clear)
Duralight/Trastar	Red Arrow	JXJ300-07R03 (clear) JXJ300-07R04 (clear)
Duralight/Trastar	Yellow Arrow	JXJ300-07Y03 (clear) JXJ300-07Y04 (clear)
Duralight/Trastar	Green Arrow	JXJ300-07G03 (clear) JXJ300-07G04 (clear)
Excellence Opto, Inc. (EOI)	Red Ball	TRV-R12SG-D2T (tinted)
Excellence Opto, Inc. (EOI)	Yellow Ball	TRV-Y12SG-D1T (tinted)
Excellence Opto, Inc. (EOI)	Green Ball	TRV-G12SG-D2T (tinted)
Excellence Opto, Inc. (EOI)	Red Arrow	TRA-R12DG-IN (tinted)
Excellence Opto, Inc. (EOI)	Yellow Arrow	TRA-Y12DG-IN2 (tinted)
Excellence Opto, Inc. (EOI)	Green Arrow	TRA-G12DG-IN (tinted)
Current (formerly GE Lighting Solutions)	Red Ball	DR6-RTFB-VLA-037 (tinted) DR6-RTFB-VLA (tinted) DR6-RTFB-VLA (tinted) DR6-RCFB-VLA (clear) DR6-RCFB-VLA (clear)
Current (formerly GE Lighting Solutions)	Yellow Ball	DR6-YTFB-VLA-037 (tinted) DR6-YZFB-VLA-037 (tinted) DR6-YTFB-VLA (tinted) DR-YZFB-VLA (tinted) DR6-YCFB-VLA (clear)
Current (formerly GE Lighting Solutions)	Green Ball	DR6-GTFB-VLA (tinted) DR6-GCFB-VLA-037 (clear) DR6-GCFB-VLA (clear)
Current (formerly GE Lighting Solutions)	Red Arrow	DR6-RTAAN-VLA (tinted)
Current	Yellow Arrow	DR6-YTAAN-VLA (tinted)

(formerly GE Lighting Solutions)		
Current (formerly GE Lighting Solutions)	Green Arrow	DR6-GTAAN-VLA (tinted)
Leotek Electronics	Red Ball	TSL-12R-LX-IL6-A1-P2 (tinted) TSL-12R-LX-IL6-A1-P3 (tinted) TSL-12R-LX-IL6-A1-P2-CLR* (clear) TSL-12R-LX-IL6-A1-P3-CLR (clear)
Leotek Electronics	Yellow Ball	TSL-12Y-LX-IL6-A1-P2 (tinted) TSL-12Y-LX-IL6-A1-P3 (tinted) TSL-12Y-LX-IL6-A1-P2-CLR *(clear) TSL-12Y-LX-IL6-A1-P3-CLR (clear)
Leotek Electronics	Green Ball	TSL-12G-LX-IL6-A1-P2 (tinted) TSL-12G-LX-IL6-A1-P3 (tinted) TSL-12G-LX-IL6-A1-P2-CLR* (clear) TSL-12G-LX-IL6-A1-P3-CLR (clear)
Leotek Electronics	Red Arrow	TSL-12RA-IL6-A1 (tinted) TSL-12RA-IL-A1-P3 (tinted) TSL-12RA-IL6-A1-CLR (clear)
Leotek Electronics	Yellow Arrow	TSL-12YA-IL6-A1 (tinted) TSL-12YA-IL-A1-P3 (tinted) TSL-12YA-IL6-A1-CLR (clear) TSL-12YA-IL6-A1-P3-CLR (clear)
Leotek Electronics	Green Arrow	TSL-12GA-IL6-A1 (tinted) TSL-12GA-IL-A1-P3 (tinted) TSL-12GA-IL6-A1-CLR (clear) TSL-12GA-IL6-A1-P3-CLR (clear)

NOTE: For Leotek LED Modules marked with an asterisk (\*), only modules with manufacture date codes of January 2013 or later are approved for use on Department projects.

## MATERIAL PRODUCER LIST (MPL) FOR DMS-11130, "PEDESTRIAN SIGNAL HEADS"

The following products are pre-qualified for use on the projects where LED optical units for pedestrian signal heads are furnished or installed as required by the plans or item descriptive code. LED optical units for pedestrian signal heads are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### Pedestrian Signal Heads

Producer	Type/Model
Chapel Hill Manufacturing	6745 (Aluminum) 7300 (Polycarbonate)
Cubic ITS (Trafficware)	12053 (Aluminum/Yellow) 12056 (Aluminum/Black)
General Traffic Equipment Corp. GTE)	P7-EMPTY-*SAM-*GV-TxDOT (Polycarbonate) P7-EMPTY-*PO-*GV-TxDOT (Polycarbonate) P8-EMPTY-*SAM-*GV-TxDOT (Aluminum) P8-EMPTY-*PO-*GV-TxDOT (Aluminum) *SAM = Swing Arm Mount (Clamshell) *GV = Grid Visor (Z-Crate) *PO = Ports Open (Unplugged)
McCain	MPA (Aluminum/Drilled/Standard) MPP (Polycarbonate/Drilled/Standard)
Mobotrex Distribution (formerly Brown Traffic)	SG7M (Aluminum/Polycarbonate) SG7S (Aluminum/Polycarbonate)
North American Signals	PP-XXXOZB-TX (Polycarbonate) AP-XXXOZB-TX (Aluminum)
Oriux (Peek Traffic Corp. DBA Oriux)	4302A (Aluminum) 4302P (Polycarbonate)

## Symbolic LED Optical Units

Producer	Type/Model
Cooper Lighting Products	CLP18DFA
Dialight	4306472001
Duralight/Trastar	JXM-300VIA JXM-400VIA
GELcore	PS7-CFC1-01A S7-CFC1-26A
Leotek Electronics	7300 (Polycarbonate)
Oriux (Peek Traffic Corp. DBA Oriux)	LEDP-HMM-002

NOTE: The above Symbolic Pedestrian LED Modules (without an integrated countdown display) are not approved for traffic signals specified on Department projects let March 2013 and after.



## **MATERIAL PRODUCER LIST (MPL) FOR DMS-11131, "PEDESTRIAN LED COUNTDOWN SIGNAL MODULES"**

The following products are pre-qualified for use on projects where countdown Symbolic LED optical units for pedestrian signal heads are furnished or installed as required by the plans or item descriptive code. Countdown Pedestrian LED Signal Modules are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### **Symbolic LED Optical Units**

<b>Producer</b>	<b>Type/Model</b>
Dialight	430-6479-001XTE
Duralight/Trastar	JXM400VIEIL JXM-400VIEIL01
Current (formerly GE Lighting Solutions)	PS7-CFF1-26A-FS PS7-CFF1-VLA-037
Leotek Electronics	TSL-PED-16-CIL-P1 TSL-PED-16-SPC-V1

# MATERIAL PRODUCER LIST (MPL) FOR DMS-11132, "ACCESSIBLE PEDESTRIAN SIGNALS"

The following products are pre-qualified for use on projects where Accessible Pedestrian Signals are furnished or installed as required by the plans or item descriptive code. Accessible Pedestrian Signals are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## Accessible Pedestrian Signals

Producer	Type/Model
PedSafety (Pelco Solutions)	WiAAPS (Wireless Advisor Advanced Accessible Pedestrian Station) <u>Consists of the following:</u> <ul style="list-style-type: none"> <li>• APC (*Advanced Pedestrian Coordinator) w/antenna</li> <li>• APB (**Advanced Pedestrian Button)</li> <li>• APB (**Touchless Advanced Pedestrian Button)</li> <li>• Termination Board</li> </ul> <u>Software used:</u> <ul style="list-style-type: none"> <li>• Web Browser</li> </ul>
Pelco	IntelliCross*** <u>Consists of the following:</u> <ul style="list-style-type: none"> <li>• Push Button Station</li> <li>• PIM (Power Interface Module)</li> <li>• CIU-C (Communications Interface Unit)</li> </ul> <u>Software used:</u> <ul style="list-style-type: none"> <li>• ICS (IntelliCross Configuration Software)</li> </ul> <u>Notes:</u> <ul style="list-style-type: none"> <li>• SP-1055-TX-x-x-Pxx</li> </ul>
Polara Enterprises, LLC	EN2 EZCOMM Navigator <u>Consists of the following:</u> <ul style="list-style-type: none"> <li>• EN2 Push Button Station</li> <li>• CCU2EN Central Control Unit (Blue)</li> <li>• Interconnect Board (50 pin 4 cable harness)</li> </ul> <u>Software used:</u> <ul style="list-style-type: none"> <li>• EZ APS Tool Box</li> </ul> <u>Notes:</u> <ul style="list-style-type: none"> <li>• Blue CCU2EN = 18VDC system between Control Unit and Push Buttons over the two button wires. Not Compatible with iN2 iNavigator or iNS2 iNavigator systems.</li> </ul>

	<ul style="list-style-type: none"> <li>(This product has been discontinued from manufacture, but this item will remain on MPL until a specified time is determined for it to be removed.)</li> </ul>
Polara Enterprises, LLC	<p>iN2 iNavigator</p> <p><u>Consists of the following:</u></p> <ul style="list-style-type: none"> <li>iN2 Push Button Station</li> <li>iCCU-S (Intelligent Central Control Unit) (Red)</li> <li>Interconnect Board (iN2-iCB)</li> </ul> <p><u>Software used:</u></p> <ul style="list-style-type: none"> <li>Intelligent Config Utility</li> </ul> <p><u>Notes:</u></p> <ul style="list-style-type: none"> <li>Red iCCU-S = 24VDC system using PLC over the two button wires between Control Unit and Push Buttons. Includes SDLC &amp; 50 Pin 4 cable harness. Can operate as a full BIU in TS2. Compatible with iNS2 push buttons.</li> <li>(This system is superseded by iNS2 System. The iCCU-S is no longer available. The iCCU-S2 is compatible with the iN2 push buttons).</li> </ul>
Polara Enterprises, LLC	<p>iNS2 iNavigator</p> <p><u>Consists of the following:</u></p> <ul style="list-style-type: none"> <li>iNS2 Push Button Station</li> <li>iCCU-S2 (Intelligent Central Control Unit) (Red)</li> <li>Interconnect Board (iN2-iCB)</li> </ul> <p><u>Software used:</u></p> <ul style="list-style-type: none"> <li>Intelligent Config Utility</li> <li>Polara Field Service iOS App</li> </ul> <p><u>Notes:</u></p> <ul style="list-style-type: none"> <li>Red iCCU-S2 = 24VDC system using PLC over the two button wires between Control Unit and Push Buttons. Includes SDLC &amp; separate cables. Can operate as a full BIU in TS2. Compatible with iN2 push buttons.</li> <li>Manufacturer sells an adapter cable, 50PINADP, that allows you to use the existing cabinet iN2 ped input and ped output wiring (50 pin 4 cable harness system)</li> </ul>

	with the newer iNS2 iNavigator System that utilizes the iCCU-S2 with a separate cable wiring system.
Polara Enterprises, LLC	<p>iDetect</p> <p><u>Consists of the following:</u></p> <ul style="list-style-type: none"> <li>• iDS2 Push Button Station</li> <li>• iCCU-S2 (Intelligent Central Control Unit) (Red)</li> <li>• Interconnect Board (iN2-ICB)</li> </ul> <p><u>Software used:</u></p> <ul style="list-style-type: none"> <li>• Intelligent Config Utility</li> <li>• Polara Field Service iOS App</li> </ul> <p><u>Notes:</u></p> <ul style="list-style-type: none"> <li>• Red iCCU-S2 = 24VDC system using PLC over the two button wires between Control Unit and Push Buttons. Includes SDLC &amp; separate cables. Can operate as a full BIU in TS2. Compatible with iNS2 push buttons.</li> <li>• iDetect is a touchless actuation feature that only comes in an iNS push button station. It is an added feature to the iNS push button station. If ordered with iNS, it becomes “iDS” or as a 2-wire push button “IDS2”.</li> </ul>

\* This model of APS (5.0b) has newer hardware that supersedes previous approved unit (4.0).

\*\* This model of APS (5.0c) has newer hardware that supersedes previous approved unit (4.0 & 5.0b).

\*\*\* The Intelicross APS is EOL and will be removed from MPL on 04/2026.

## MATERIAL PRODUCER LIST (MPL) FOR DMS-11150, "SOLAR POWER FLASHER CONTROLLER ASSEMBLY"

The following products are pre-qualified for use on the projects where solar power flasher controller assemblies are furnished or installed as required by the plans or item descriptive code. Solar power flasher controller assemblies are subject to testing.

### 24-Hour Flasher Assembly

Producer	Model	Type
BDesign	BD24-1R-Z1	Single Red Indication
	BD24-2R-Z1	Dual Red Indication
	BD24-1Y-Z1	Single Yellow Indication
	BD24-2Y-Z1	Dual Yellow Indication
	BD24-1R-Z2	Single Red Indication
	BD24-2R-Z2	Dual Red Indication
	BD24-1Y-Z2	Single Yellow Indication
	BD24-2Y-Z2	Dual Yellow Indication
Carmanah	R829-G	Dual Yellow Indication
Chapel Hill	SP24-TX1-1R	Single Red Indication
	SP24-TX1-2R	Dual Red Indication
	SP24-TX1-1Y	Single Yellow Indication
	SP24-TX1-2Y	Dual Yellow Indication
Consolidated Traffic Controls, Inc.	RTC SF24-TX1R	Advance Red Indication
	RTC SF24-TX2R	Advance Red Indication
	RTC SF24-TX1Y	Advance Yellow Indication
	RTC SF24-TX2Y	Advance Yellow Indication
Eltec	S890502	Single Yellow Indication
	S890503	Single Red Indication
	S890505	Dual Yellow Indication
	S890506	Dual Red Indication
	S890507	Dual Yellow Indication
	S890508	Dual Red Indication
Encom	Harmony	Dual Yellow Indication

		Dual Red Indication
K&K Systems, Inc.	KK161709-TX	Single Yellow Indication (116-S12)* Dual Yellow Indication (118-D12)* Single Red Indication (115-S12)* Dual Red Indication (117-D12)*
Paradigm Traffic, Inc.	AI070-90W-15CA	Dual Yellow Indication
RTC	TXDCSZ (1 Battery) TXDC2BATT (2 Battery)	Dual Yellow Indication Dual Yellow Indication
Texas Highway Products (formerly ACM Highway Products)	SF24-1R-Z1 SF24-1Y-Z1 SF24-2R-Z1 SF24-2Y-Z1 SF24-1R-Z2 SF24-1Y-Z2 SF24-2R-Z2 SF24-2Y-Z2	Single Red Indication Single Yellow Indication Dual Red Indication Dual Yellow Indication Single Red Indication Single Yellow Indication Dual Red Indication Dual Yellow Indication
Traffic and Parking Control Company, Inc. (TAPCO)	600173 (Dual BlinkerBeacon)	Dual Yellow Indication
WE Manufacturing	TxDOT Solar Flasher	Dual Yellow Indication Dual Red Indication

\*Approval of 24HR flasher only (Side of Pole Mount Type).

### School-Zone Flasher Assembly

Producer	Model	Type
BDesign	BDSZ-1Y-Z1 BDSZ-2Y-Z1 BDSZ-1Y-Z2 BDSZ-2Y-Z2	Single Beacon School-Zone Dual Beacon School-Zone Single Beacon School-Zone Dual Beacon School-Zone
Carmanah	R829-G	Dual Beacon Indication
Chapel Hill	SPSZ-TX1	School-Zone
Consolidated Traffic Controls Inc.	RTC SZF-TX1Y RTC SZF-TX2Y	School-Zone School-Zone
Eltec	S890501 S890504	Single Beacon School-Zone Dual Beacon School-Zone

Encom	Harmony	Dual Yellow Indication
Paradigm Traffic, Inc.	AI070-90W-15CAB	Dual Yellow Indication
RTC	TXDCSZ (1 Battery)	Dual Yellow Indication
	TXDC2BATT (2 Battery)	Dual Yellow Indication
Texas Highway Products (formerly ACM Highway Products)	SFSZ-2Y-Z1	Single Beacon School-Zone
	SFSZ-2Y-Z2	Dual Beacon School-Zone
Traffic and Parking Control Company, Inc. (TAPCO)	600173 (Dual BlinkerBeacon)	Dual Yellow Indication

### Replacement Parts

Producer	Model	Type
Consolidated Traffic Controls Inc.	RTC 502598TxDOTF	Panel DC with Flasher & Regulator

## MATERIAL PRODUCER LIST (MPL) FOR DMS-11160, "FLASHER CONTROLLER ASSEMBLY"

The following products are pre-qualified for use on the projects where flasher controller assemblies are furnished or installed as required by the plans or item descriptive code. Flasher controller assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### Flasher Cabinets

Producer	Type/Model
B Designs	FB1-TX
Chapel Hill / Traffic Parts	2859
Henke Enterprises	NFF2C
Mobotrex Distribution (formerly Brown Traffic)	EPS217
RTC	RTCAC
TEC (Traffic Engineering Controls)	NF2C-TX
Cubic ITS (Trafficware)	50040-2000
WE Manufacturing	WE-MFG 120V AC Flasher

### Time Clocks

Producer	Type/Model
ELTEC (Electrotechnics)	TC-18 <u>Software used to connect:</u> DLPRO 18
RTC	AP22 <u>Software used to connect:</u> RTC Connect
RTC	AP22 <u>Software used to connect:</u> RTC Connect
Cubic ITS (Trafficware)	50075-2001 (Chronomax)



	Software used to connect: Chronomax Direct
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## MATERIAL PRODUCER LIST (MPL) FOR DMS-11170, "TRAFFIC SIGNAL CONTROLLER ASSEMBLY"

The following products are pre-qualified for use on the projects where traffic signal controller assemblies are furnished or installed as required by the plans or item descriptive code. Traffic signal controller assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### CONTROLLER UNIT (ONLY)

**NEMA, TS-2, Pole-Mount/Base-Mount (12 and 16 positions), SDLC Traffic Controller Assembly with ABC Connectors (Type 2) and without ABC Connectors (Type 1)**

Producer	Model	Type	Firmware Version
Econolite (Manufacturer) Paradigm (Texas Vendor)	Cobalt (Color Touch Screen) Cobalt (Non-Touch Screen)	Type 1 and 2 Type 1 and 2	3.2.13-Rev-A ***
Econolite ATMS Software	Centracs Centracs Local Edition (Standalone)		2.6.4.10
Cubic ITS (Trafficware) (Manufacturer) (No Texas Vendor)	50280-2140 50280-2240 COM-11xxxx10**** COM-21xxxx10****	980 ATC Type 1 980 ATC Type 2 Commander Type 1 Commander Type 2	85.3.0
Cubic ITS (Trafficware) ATMS Software	ATMS.Now Street Sync		2.12 1.5
Swarco (McCain, Inc.) (Manufacturer) Consolidated Traffic Controls (Texas Vendor)	M57970 (ATCeX2) M57390 (ATCeX2)	Type 1 Type 2	3.3.00
Swarco ATMS Software	Transparency		1.4
Oriux (Peek Traffic Corp. DBA Oriux)	ATC 1000 Gen 1 ATC 1000 Gen 2	Type 1 and 2 Type 1 and 2	3.18

Oriux ATMS Software	Spinnaker ATC Link (Standalone)		2.0.0 3.25
QFree (formerly Intelight) (Manufacturer) Texas Highway Products (Texas Vendor)	XN	Type 1 and 2	2.12.0
QFree (formerly Intelight) ATMS Software	<del>Maxview****</del>		<del>1.9.0.745</del>
Yunex Traffic (Manufacturer) Mobotrex Distribution (Texas Vendor)	8132-0000-** (M60 NEMA Linux)* 8133-0000-** (M60 ATC Lite)* 8133-0004-** (M60)*	Type 2  Type 2  Type 2	5.4.4
Yunex Traffic (A Siemens Business) ATMS Software			5.5.1

\*Not compatible with Econolite Accuscan 600, 1000 and Smartmicro Type 32 radar systems when using SDLC. Use expansion module (contact closure) cards. (ATC8309 Engine Board)

\*\*This denotes latest approved firmware by TRF-TM Branch.

\*\*\*New Cobalt's are being shipped with new EB1.3 (repackaging EOS 3.2.13 to include new firmware (EBOS 06.18)

\*\*\*\*Are manufacturer variable options that do not affect adherence to specification

\*\*\*\*\*MaxView uses an Microsoft plugin called "Silverlight" that is no longer supported/updated. Therefore, the MaxView ATMS is no longer allowed for use on the TxDOT network. Contact TRF-TM for further info.

## CABINET ASSEMBLY

### NEMA, TS-2, Pole-Mount/Base-Mount (12 and 16 positions), SDLC Traffic Controller Assembly without ABC Connectors

Producer	Type/Model
Econolite (Manufacturer) Paradigm (Texas Vendor)	CAB17366 (Rev R) (Size 6, 16-position, Base Mount) <ul style="list-style-type: none"> <li>Model P44</li> <li>Part# 170-1020-521-2</li> </ul>

Cubic ITS (Trafficware) (Manufacturer) (No Texas Vendor)	70008-3044E-BM (Size 5, 12-position, Base Mount) 70008-3044E (Size 5, 12-position, Pole Mount) 70008-3044E-62 (Size 5, 12-position, Pole Mount, 62") ** 70006-3044 (Size 6, 16-position, Base Mount) 70006-3044E (Size 6, 16-position, Base Mount) 70006-3044E-68RD (Size 6, 16-position, Base Mount, 68") *
Henke Enterprises, Inc. Multiple Texas Vendors: Paradigm (Econolite) Texas Highway Products (Qfree)	M128T-TS2-1 (Size 5, 12-position, Pole Mount 30" Wide) M62128-TS2-1 (Size 5, 12-position, Pole Mount, 62") ** P128T-TS2-1 (Size 6, 12-position, Base Mount) P168T-TS2-1 (Size 6, 16-position, Base Mount) HEN-TS2 (Size 6, 16-position, Base Mount) P67168-TS2-1 (Size 6, 16-position, Base Mount, 67") *
Swarco (McCain, Inc.) (Manufacturer) Consolidated Traffic Controls (Texas Vendor)	M47800 (Size 6, 16-position, Base Mount)
Mobotrex Distribution (Manufacturer) (No Texas Vendor)	EL702-TX2P (Size 5, 12-position, Pole Mount) EL708-TX2 (Size 5, 12-position, Pole Mount, (62") ** EL702-TX2 (Size 5, 12-position, Base Mount) EL712-TX2 (Size 6, 16-position, Base Mount) ELS1008-TX2 (Size 6, 16-position, Base Mount, Stretch P, 66") * EL720-TX2 (Size 6, 16-position, Base Mount) (R Cabinet, 77") *
Paradigm Traffic Systems, Inc. (No Texas Vendor)	PT-M55128TS2-1 (Size 5, 12-position, Pole Mount) 004-M62128-TS2-1-TX (Size 5, 12-position, Pole Mount, 62") ** PT-P38128TS2-1 (Size 5, 12-position, Pole Mount 38" Wide) PT-P44128TS2-1 (Size 6, 12-position, Base Mount) PT-P44168TS2-1 (Size 6, 16-position, Base Mount) 004-PT-P442D168-TX (Size 6, 16-position, Base Mount, 67") *
Oriux (Peek Traffic Corp. DBA Oriux) (No Texas Vendor)	8500-17568 (Size 6, 16-position, Base Mount) 8500-17568-01 (Size 6, 16-position, Base Mount)

\* This model of cabinet is taller with a third shelf and additional rear door.

\*\*This model of cabinet is taller with a third shelf

### **Malfunction Management Unit (MMU)**

Producer	Type/Model	Firmware Version
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Eberle Design (EDI)	MMU2-16LEip*	7.5
Eberle Design (EDI) Software	ECcom	4.5

\* This model of MMU is also rebranded with the Trafficware and Econolite name.

### ***Flasher Load Switch***

#### ***NEMA, TS-2, TWO CIRCUIT, SOLID STATE, 15-AMP***

Producer	Type/Model
Eberle Design (EDI)	810*
GDI	204
PDC	204

\* This model of MMU is also rebranded with the Trafficware and Econolite name.

### ***Flash Transfer Relays***

#### ***NEMA, TS-2, THREE CIRCUIT, SOLID STATE, 10-AMP***

Producer	Type/Model
AEMCO	136-4992
Deltrol Controls	295
Magnecraft	21ACPXD-5
Midtex	136-62T3A1
Reno A&E	TR-200
Struthers-Dunn	21ACPX-21XBXP
Struthers-Dunn	21XBXP-120VA

### ***Load Switch***

#### ***NEMA, TS-2, THREE CIRCUIT, SOLID STATE, 10-AMP***

Producer	Type/Model
Eberle Design (EDI)	510
PDC	200*
TSC	200

\* This model of EDI Load Switch is also rebranded with the Econolite name.

### ***Bus Interface Unit (BIU)***

#### ***NEMA, TS-2***

Producer	Type/Model
Eberle Design (EDI)	BIU-700
Econolite	160-1018-501
Cubic ITS (Trafficware)	BIU-700-TW (Same as EDI BIU-700)

### ***Power Supply (PS)***

#### ***NEMA, TS-2***

Producer	Type/Model
Eberle Design (EDI)	PS 250 A (Linear Power Supply) PS 250 B (Switching Power Supply) PS 250 E (Linear Power Supply)*
Eagle (Mobotrex Distribution, formerly Brown Traffic)	CPS 105
Cubic ITS (Trafficware)	PS2D

\* This model of Power Supply is the EDI PS250A that is rebranded with the Econolite name.

### ***Surge Protection Device (SPD)***

Producer	Type/Model
Citel	DS72US-120S/G (SPD) DUC31 (EMI/RFI Filter) DS72US-120S/G-F-ASSM (SPD & Filter) M50-120S-A (SPD) M50-120S-B (SPD) M50F-120S-A (SPD & Filter) M50F-120S-B (SPD & Filter)
Dehn	SN 4616 (Part#989409/S)
Eaton	ITCF1203-RJ

Emerson	SHA-1235FS
HESCO	SPD130KV2 HE1820

\* This model of MMU is also rebranded with the Trafficware and Econolite name.

## Traffic Signals (SS)

The following materials are pre-qualified for use with the Department's Standards Specifications for Construction and Maintenance of Highways, Streets, and Bridges and are associated with TO Specifications, which pertain to the installation of highway traffic signals. This is unique to statewide special specifications. District wide and one-time use (OTU) are not represented in this list.

The TO specs were traditionally created as "Traffic Operations" special specifications that were used as purchasing specifications. These TO specs were part of traffic item descriptions for materials that are stocked at the TxDOT warehouses that supply districts maintenance items to maintain current traffic signal equipment along TxDOT roadways. These TO specs were also referenced in other contract procurements where these items were procured (i.e. TxSmartBuy)

## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-3056 FLASH TRANSFER RELAYS

(These items are parts and accessories and part of DMS-11170)

The following products are pre-qualified for use on the projects where Flash Transfer Relays are furnished or installed as required by the plans or item descriptive codes. Flash Transfer Relays are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### *Electromechanical Devices*

Producer	Type/Model
AEMCO	136-4992
Deltrol Controls	295
Magnecraft	21ACPXD-5
Midtex	136-62T3A1
Reno A&E	TR-200
Struthers-Dunn	21ACPX-21XBXP
Struthers-Dunn	21XBXPL-120VAC



## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-4050 SPREAD SPECTRUM RADIO FOR TRAFFIC SIGNAL CLOSED LOOP SYSTEMS

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Spread Spectrum Radio for Traffic Signal Closed Loop Systems are furnished or installed as required by the plans or item descriptive codes. Spread Spectrum Radio for Traffic Signal Closed Loop Systems are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### Spread Spectrum Radio for Traffic Signal Closed Loop Systems

Producer	Type/Model
Encom	COMMPAK 2000 Series* (contact closure for detection) COMMPAK 4000 Series* (contact closure) COMMPAK 5000 Series* (closed loop) COMMPAK 7000 Series* (two-way contact closure) COMMPAK 8000 Series* (Ethernet)
Freewave	FGR-115RE* (Ethernet) FGR-115RC* (rugged) FGR-115WC* (waterproof)
GE (General Electric Company)	9810 (data only) iNet 900* (Ethernet) TransNET 900*
Intuicom	Communicator II – <ul style="list-style-type: none"> <li>FIP1-900C2M-R2 (shelf mounted 900 MHz radio)</li> </ul> DIO Radio – <ul style="list-style-type: none"> <li>FIP1-900DIO-R (switch closure 900 MHz radio)</li> </ul>
Microhard Systems, Inc.	Nano IP n920 (with enclosure)
Phoenix Contact	RAD-ISM-900-EN-BD (900 MHz frequency hopping, serial, and Ethernet)
Simrex Corporation	SS-900; Alias Datamover SS (900 MHz frequency hopping and serial)

\*Forward Store Capabilities

***Surge Protection Devices (SPDs) for***

***Spread Spectrum Radio for Traffic Signal Closed Loop Systems***

Producer	Type/Model
Citel	P8AX09-N/FF (SPD Coax for Spread Spectrum Systems)

## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6019 PEDESTRIAN PUSH BUTTONS

These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Pedestrian Push Buttons are furnished or installed as required by the plans or item descriptive codes. Pedestrian Push Buttons are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### ***Mechanical (Plunger Style)***

Producer	Type/Model
Chapel Hill	PB-S10-B04-Y

### ***Solid State (Piezo Style)***

Producer	Type/Model
Polara Enterprises, LLC	BDSP-04-Y (Bull Dog)

## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6045 TWO CHANNEL LOOP DETECTOR

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Two Channel Loop Detector are furnished or installed as required by the plans or item descriptive codes. Two Channel Loop Detector are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### ***TWO CHANNEL LOOP DETECTOR***

Producer	Type/Model
Cubic ITS (Trafficware)	722L (2-channel LCD) 722LC (2-channel LCD) 724 (4-channel LCD)
Eberle Design (EDI)	Oracle 2E
Oriux	292 CC-D
(Peek Traffic Corp. DBA Oriux)	Model C (1200-SS)

# MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6290(A) VIDEO IMAGING VEHICLE DETECTION SYSTEM (Intersection Control Only)

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Video Imaging Vehicle Detection Systems are furnished or installed as required by the plans or item descriptive codes. Video Imaging Vehicle Detection Systems are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## ***Video Imaging Vehicle Detection System***

Producer	Type/Model
FLIR (Consolidated Traffic Controls)	Traficon VIP 3.1 (single camera input) Traficon VIP 3.2 (two camera input) Traficon VIP/3D.2 Edge (dual camera video detection processor) Traficon VIP/3D.1 Edge (single camera video detection processor) Traficon Viewcom E (Ethernet or serial communication interface for remote video viewing of the VIP/3D.1 or VIP/3D.2 Edge video processor)
Iteris, Inc.	Iteris Edge 2-2N TEXAS
Paradigm Traffic Systems, Inc.	Econolite Autoscope Solo Pro Econolite Autoscope Rackvision Econolite Autoscope Rackvision Terra Econolite Autoscope Rackvision Pro2
Oriux (Peek Traffic Corp. DBA Oriux)	VideoTrak-IQ
Cubic ITS (Trafficware)	Traficon VU BIU Traficon VU COM Traficon VU 2 Series (includes VU 2 & VU 2F two camera input) Traficon VU 1 Series (includes VU 1 & VU 1F one camera input)

***Surge Protection Devices (SPDs) for Video Imaging Vehicle Detection Systems***

Producer	Type/Model
Citel	P8AX09-B/FF (SPD Coax for VIVDS)

# MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6291 VIDEO IMAGING VEHICLE DETECTION SYSTEMS (For Intersection Stop Line Detection)

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Video Imaging Vehicle Detection Systems (For Intersection Stop Line Detection) are furnished or installed as required by the plans or item descriptive codes. Video Imaging Vehicle Detection Systems (For Intersection Stop Line Detection) are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## Video Imaging Vehicle Detection System (For Intersection Stop Line Detection)

Producer	Type/Model
Econolite	<u>Autoscope Vision System</u> <ul style="list-style-type: none"> <li>• Camera</li> <li>• Comm Manager (Power Dist. Panel/Comm/SDLC)Econolite Supervisor (Software for local/remote config)</li> </ul>
FLIR	<u>Trafiradar System</u> <ul style="list-style-type: none"> <li>• Cam/Sensor</li> <li>• Power Distribution Panel</li> <li>• TI X-Stream Edge Interface</li> <li>• PIM (Used with TS2 SDLC for additional 64 outputs)</li> <li>• 4/Os xp Expansion Boards (For additional outputs)</li> <li>• Traficon Configuration Tool (Software used for remote config)</li> </ul>
Gridsmart	<u>Gridsmart System</u> <ul style="list-style-type: none"> <li>• Camera</li> <li>• GS2 (Processor)**</li> <li>• GS3 (Processor)</li> <li>• Gridsmart Client (Software for remote config)</li> </ul>
Iteris	<u>Vantage Vector System</u> <ul style="list-style-type: none"> <li>• Camera/Sensor</li> <li>• Power Distribution Panel</li> <li>• Processor</li> <li>• VRAS (Software for Remote Config.)</li> </ul> <u>Vantage Next System</u> <ul style="list-style-type: none"> <li>• Camera</li> <li>• CCU (Power Distribution Panel)</li> </ul>

	<ul style="list-style-type: none"> <li>• Processor</li> <li>• Next Setup Tool/Viewer (Software for remote config)</li> </ul>
ITS Plus, Inc.	<p><u>ITS Plus System</u></p> <ul style="list-style-type: none"> <li>• Camera</li> <li>• Power Distribution Panel</li> <li>• Processor</li> <li>• SVS (Software for remote config)</li> </ul> <p><u>ITS Plus Thunder***</u></p> <ul style="list-style-type: none"> <li>• ITS Plus Thunder ITSP-T600POE-AI</li> <li>• Camera - Part# ITSP-POE-110 (Wide Angle Lens, ITSP- PMPOE standard)</li> <li>• Power over Ethernet (PoE) surge suppression device - Part# DTK-NETMS</li> <li>• PoE Extender (when needed) - Part# DTK-EXTMS</li> <li>• 4 channel Video Encoder Part # ARTPEC-7 and EM-HDLC SDLC Converter</li> <li>• Flow Insights (Software for remote config)</li> </ul>
Miovision Technologies	<p><u>MiovisionOne System</u></p> <ul style="list-style-type: none"> <li>• CoreDCM (Detection and Count Module)</li> <li>• SmartView Camera</li> <li>• Web Browser (For local/remote config)</li> <li>• Roadside and Cloud Configuration Tool</li> </ul>
NoTraffic	<p><u>NoTraffic Detection &amp; Sensing System Model 2.0</u></p> <ul style="list-style-type: none"> <li>• Control Unit</li> <li>• Sensor Unit</li> <li>• DIN Rail w/power distribution</li> <li>• Intersection Manager (Web UI for local/remote config)</li> </ul>
Rhythm Engineering	<p><u>codeGreen codeGreen</u></p> <ul style="list-style-type: none"> <li>• Processor</li> <li>• Panamorphic Lens Camera</li> <li>• SDLC Module</li> <li>• DIN Rail w/ethernet switch and power distribution</li> <li>• Code Green Configurator (Web UI for local/remote config)</li> </ul>



***Surge Protection Devices (SPDs) for Video Imaging Vehicle Detection Systems  
(For Intersection Stop Line Detection)***

Producer	Type/Model
Citel	CGMJ8-POE-A (SPD POE for VIVDS)* CRMJ8-POE-C6A (SPD POE for VIVDS)* CWMJ8-POE-C6A (SPD POE for VIVDS)* MJ8-C6A (SPD Ethernet for VIVDS) MJ8-POE-A (SPD POE for VIVDS) MJ8-POE-C6A (SPD POE for VIVDS)

\*These SPD's are in an outdoor rated enclosure

\*\*The GS2 will be removed from the MPL on 04-17-25. The GS3 is the updated processor.

\*\*\*This system could be used for a direct replacement for a short-term solution for legacy video detection system cameras that utilize coax cable. Contact TRF-TM for further information.

## **MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6295 WIRELESS VIDEO IMAGING VEHICLE DETECTION SYSTEM**

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Wireless Video Imaging Vehicle Detection System are furnished or installed as required by the plans or item descriptive codes.

Wireless Video Imaging Vehicle Detection System are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### ***WIRELESS VIDEO IMAGING VEHICLE DETECTION SYSTEM***

<b>Producer</b>	<b>Type/Model</b>
Iteris	4WCAMSYS
Traficon	FPCT 5.8

## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-6300 THERMAL TRAFFIC CAMERA

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Thermal Cameras are furnished or installed as required by the plans or item descriptive codes. Thermal Cameras are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### ***TWO CHANNEL LOOP DETECTOR***

Producer	Type/Model
FLIR Systems, Inc.	SR-Series FC-Series

# MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-7010 NETWORKED SCHOOL ZONE FLASHER SYSTEMS

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Networked School Zone Flasher Systems are furnished or installed as required by the plans or item descriptive codes. Networked School Zone Flasher Systems are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## ***Networked School Zone Flasher Systems***

Producer	Type/Model
Applied Information	<p><u>System consists of the following:</u></p> <p><u>Time Clock:</u></p> <ul style="list-style-type: none"> <li>AI-500-070</li> </ul> <p><u>Software:</u></p> <ul style="list-style-type: none"> <li>Glance (Cloud Based)</li> </ul>
Encom	<p>Harmony</p> <p><u>System consists of the following:</u></p> <p><u>Time Clock:</u></p> <ul style="list-style-type: none"> <li>EH 600 DC Gateway</li> <li>EH 600 AC Gateway</li> <li>EH 500 AC (SBX Remote)</li> <li>EH 500 DC (SBX Remote)</li> <li>HAR-700-DC-KIT (Cellular Gateway)</li> <li>HAR-700-AC-KIT (Cellular Gateway)</li> <li>HAR-700-DC-NR-KIT (Cellular/No Radio)</li> <li>HAR-700-AC-NR-KIT (Cellular/No Radio)</li> </ul> <p><u>Software:</u></p> <ul style="list-style-type: none"> <li>Stratos</li> <li>ATMOS Cloud (Cloud Based**)</li> </ul> <p>** For cloud-based solution from Encom, it is recommended to use the vendor supplied cellular router.</p>
Eltec Traffic Products	<p>System 3000</p> <p><u>System consists of the following:</u></p> <p><u>Time Clock:</u></p> <ul style="list-style-type: none"> <li>Lang 3000</li> </ul>

	<ul style="list-style-type: none"> <li>• TC-3000</li> </ul> <p><u>Software:</u></p> <ul style="list-style-type: none"> <li>• DLPRO 3000</li> </ul> <p><u>Notes:</u></p> <ul style="list-style-type: none"> <li>• Uses 900MHz radios for Lang and TC Clocks, with TxDOT approved cellular modem. For solar applications, a lower power usage modem is recommended. TxDOT TRF-TM has this info on recommended models.</li> </ul>
RTC Manufacturing	<p>RTC Connect</p> <p><u>System consists of the following:</u></p> <p><u>Time Clock:</u></p> <ul style="list-style-type: none"> <li>• APP22</li> <li>• (Optional): Guardian (AC &amp; DC Models)</li> </ul> <p><u>Software:</u></p> <ul style="list-style-type: none"> <li>• RTC Connect (Software on PC) *</li> <li>• RTC Connect (Cloud Based) **</li> </ul> <p><u>Notes:</u></p> <ul style="list-style-type: none"> <li>• Uses either vendor supplied cellular modem or TxDOT approved cellular modem.</li> </ul> <p>* Contact TRF-TM for further details when using a TxDOT supplied modem with RTC system.</p> <p>** For cloud-based solution from RTC, it is recommended to use the vendor supplied cellular router.</p>

# MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-8000 RADAR VEHICLE DETECTION SYSTEM

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Radar Vehicle Detection Systems are furnished or installed as required by the plans or item descriptive codes. Radar Vehicle Detection Systems are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## ***Radar Vehicle Detection System***

Producer	Type/Model
Iteris, Inc. (Manufacturer)  (No Texas Vendor)	Vantage Vector (Advance Detection) <ul style="list-style-type: none"> <li>Processor*</li> <li>Sensor**</li> <li>SPD Panel (Surge Protection)</li> <li>Radius Setup Tool (RST-2) (Software for Remote Config.)</li> </ul> <p>* This system uses a specific card style Vector Edge Processor for both radar and video detection.</p> <p>** Sensor for this system is typically coupled with a video camera for presence detection</p>
	Vantage Radius (Presence Detection) <ul style="list-style-type: none"> <li>CCU*</li> <li>Sensor**</li> <li>SPD Panel (Surge Protection)</li> <li>Radius Setup Tool (RST-2) (Software for Remote Config.)</li> </ul> <p>* CCU can vary depending on intersection setup. (i.e. 2, 4 sensor capable CCU's. The older CCU's can be upgraded to latest firmware for compatibility with Radius Plus and Radius systems.</p> <p>** This system was only presence detection and Iteris had two generations of this system, a Gen 1 and Gen 2.</p>
	Vantage Radius Plus (Presence/Advanced Detection) <ul style="list-style-type: none"> <li>CCU*</li> <li>Sensor**</li> <li>SPD Panel (Surge Protection)</li> <li>Radius Setup Tool (RST-2) (Software for Remote Config.)</li> </ul> <p>* CCU can vary depending on intersection setup. (i.e. 2, 4 sensor capable CCU's.</p>

	** Sensor for this system do both presence and advanced detection in one sensor.
MS Sedco (Manufacturer) (No Texas Vendor)	Intersector (Advance Detection) <ul style="list-style-type: none"> <li>• TC-CK1-VMS (Sensor)</li> <li>• TCIB-2.1 (Contact Closure Card 2 Channel)</li> <li>• TCIB-4.1 (Contact Closure Card 4 Channel)</li> <li>• TCPI-4 Power Injector</li> </ul>
	Intersector (Advance Detection) <ul style="list-style-type: none"> <li>• TC-CK1-VMS (Sensor)</li> <li>• TCIB-2.1 (Contact Closure Card 2 Channel)</li> <li>• TCIB-4.1 (Contact Closure Card 4 Channel)</li> <li>• TCPI-4 Power Injector</li> </ul>
NoTraffic (Manufacturer)  Texas Highway Products (Texas Vendor)	NoTraffic Detection & Sensing System Model 2.0 <u>(Presence &amp; Advanced Detection)</u> <ul style="list-style-type: none"> <li>• Control Unit</li> <li>• Sensor Unit</li> <li>• DIN Rail w/power distribution</li> <li>• Intersection Manager (Web UI for local/remote config)</li> </ul>
Smartmicro (Manufacturer) Paradigm (Texas Vendor)	Type 44 (Presence Detection)* <ul style="list-style-type: none"> <li>• UMRR11 Sensor (Full Duplex)</li> <li>• Works with TMIB V2 Only</li> </ul>
	Type 48 (Presence & Advance Detection) (TRUGRD)* <ul style="list-style-type: none"> <li>• C Sensor (Full Duplex)</li> <li>• Works with TMIB V2 Only</li> </ul> *Use Comm Hub w/SDLC Module for proper operation with the Yunex M60 traffic signal controller
	Type 48 Stream (Presence & Advance Detection) (TRUGRD)* <ul style="list-style-type: none"> <li>• C Sensor (Full Duplex)</li> <li>• Comm Hub (SDLC, Power Supply, SPD)</li> <li>• 3 Conductor Wire (Ethernet over Power)</li> </ul> *Use Comm Hub w/SDLC Module for proper operation with the Yunex M60 traffic signal controller
Teledyne FLIR (Manufacturer) Consolidated Traffic Controls (Texas Vendor)	Trafiradar (Advance Detection)
Wavetronix (Manufacturer)	Presence & Advance Detection <ul style="list-style-type: none"> <li>• ARC Series* (2,5,6 Sensor)</li> </ul>

Twincrest Technologies (Texas Vendor)	<ul style="list-style-type: none"> <li>Click 65x (600=4 Sensor, 650=4 Sensor, 656=6 Sensor)</li> <li>SS Presence (WX-SS-225)</li> <li>SS Advanced (WX-SS-200)</li> <li>SS Advanced Extended Range (WX-SS-200E)</li> <li>SS Manger Advanced &amp; Matrix (Software for local/remote config.).</li> <li>Web UI (Click 65x for some programming capabilities)</li> <li>Expanse (SW for ARC Config. only)</li> </ul> <p>* Compatible with current listed sensors</p> <p>Side-Fire Detection</p> <ul style="list-style-type: none"> <li>HD-126*</li> <li>XP20 (101-0451) <ul style="list-style-type: none"> <li>XP20 Surge</li> <li>Expanse Sensor Mount</li> <li>Expanse 36-Inch Mount</li> <li>Expanse Link Cable</li> <li>Expanse Link S Cable</li> <li>M12-T Cable Junction Box</li> </ul> </li> <li>Web UI (XP20)</li> <li>Expanse (SW for Config. only)</li> </ul> <p>*HD-126 to be discontinued on December 31, 2025. Will remove from MPL at that time.</p>
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## MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-8010 WIRELESS MAGNETOMETER VEHICLE DETECTION SYSTEMS

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Wireless Magnetometer Vehicle Detection Systems are furnished or installed as required by the plans or item descriptive codes.

Wireless Magnetometer Vehicle Detection Systems are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

### ***Wireless Magnetometer Vehicle Detection Systems***

Producer	Type/Model
Sensys Networks	VDS240

# MATERIAL PRODUCER LIST (MPL) FOR SPECIAL SPECIFICATION TO-8248 UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR SIGNAL CABINETS

(These items are not part of any current DMS)

The following products are pre-qualified for use on the projects where Uninterruptible Power Supply (UPS) System for signal cabinets are furnished or installed as required by the plans or item descriptive codes. Uninterruptible Power Supply (UPS) System assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

## ***Uninterruptible Power Supply (UPS) System for signal cabinets***

Producer	Type/Model
Alpha Technologies, Inc. (Manufacturer) Paradigm Traffic (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>S6-FXM2-4X1810229</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>FXM-2000, 120V i/o, 48VDC, SNMP-017-232-31</li> <li>FXM-HP 2000 (Part #0170022-001)</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>TXDOT S6 w/o Gen w/RM UATS, Srg, BCK, SrvcPnl-026-053-75</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>4ea. – Alpha Cell 240XTV Battery, 12V, 112Ah, Top M6Fem Term-1810229</li> </ul>
American Power Conversion (APC) (Manufacturer) Consolidated Traffic Controls (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>APC-TXDOT</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>IND1K3H12SB (Includes Smart UPS 1300W (XU1K3LLXXRCC) and SBU)</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>CTCBBS (260012)</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>4ea. – Interstate DCM0100L</li> <li>4ea. – MK8A30 HEI batteries</li> </ul>
Clary (Manufacturer) Texas Highway Products (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>Clary SP2000LX-N Assembly</li> <li>Clary SP2000LX-N/48 Assembly</li> </ul> <u>Inverter/Charger:</u>

	<ul style="list-style-type: none"> <li>• SP2000LX</li> <li>• SP200LX-N/48</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• Bison Cabinet-014406</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 8ea. – OPB-1251</li> <li>• 8ea. – MK 8A24HEI</li> <li>• 4ea. – SLA1195 (Interstate)</li> </ul>
Marathon (Manufacturer) Tiger Traffic, formerly Wildcat (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>• CTRS-2004-01</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>• Marathon Power 2000VA/1500W (Part# TRTC-2004-N1)</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• Southern Manufacturing 49H22W17D BBS Enclosure (New Cabinet Design)</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 4ea. – MK 8A30 HEI</li> </ul>
Multilink (Manufacturer) Mobotrex (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>• MBBU-L2200</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>• 8005-0130-UPS2200-ML (w/UPS cable assembly)</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• EL762TX1</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 4ea. – MK 8A30 HEI</li> </ul>
Myers Power Products (Manufacturer) Iteris (Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>• MP200E/EL762TX1</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>• MP2000E</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• BC1280 (w/ MK 31HR4000S batteries)</li> <li>• EL762TX1 (w/ MK 8A30HEI batteries)</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 4ea. – MK 31HR4000S</li> <li>• 4ea. – MK8A30HEI</li> </ul>
Oriux (Manufacturer)	<u>UPS Assembly:</u>

(Peek Traffic Corp. DBA Oriux) (No Texas Vendor)	<ul style="list-style-type: none"> <li>• 5200#15774 (BBU TxDOT Approved / No Batteries Included)</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>• PB-2000 ITS (Power Back) (2M40-0084 PB2000 w/Ethernet Card)</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• 5201-0002 (Cabinet Shell w/Shelves &amp; 1 Fan Assembly)</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 4ea. – Universal UB121100 (2X60-0007)</li> <li>• 4ea. – Interstate 12MQ3000 (2X65-0011)</li> </ul>
Cubic ITS (No Texas Vendor)	<u>UPS Assembly:</u> <ul style="list-style-type: none"> <li>• 50450-200-ML-TX (MultiLink)</li> </ul> <u>Inverter/Charger:</u> <ul style="list-style-type: none"> <li>• 8005-0130-UPS2200-ML</li> </ul> <u>Cabinet:</u> <ul style="list-style-type: none"> <li>• 50450-2000-MLAUX</li> </ul> <u>Batteries:</u> <ul style="list-style-type: none"> <li>• 4ea. – MK 8A30HEI</li> </ul>