

Note: This list provides additional detailed product information that cannot be presented on the ODOT QPL/APL Web Page.  
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**CMS 633.15 Communications: For devices connected to or interfaced with ODOT's network and/or software.**

Manufacturer	Model	Carrier	Product Number
Sierra Wireless	GX450	Verizon	1102361
Sierra Wireless	Raven X	Verizon	V4228-V
Sierra Wireless	GX450	ATT	1102365
Sierra Wireless	Raven RV50		

The type of device is determine by site conditions and the type of connected equipment and shall be solely determined by ODOT at time of Contractor request.

**CMS 733.02 F / Supp 1104 (2070E CONTROLLERS):**

Manufacturer	Model / TEES compliance	Build Number	Build Date
Siemens	2070E	8.0.0.0.0.483	
McCain	2070E	1.1.0.4.0.1	6/10/2011
Econolite/Safetran	2070E	1.1.1.0.819.1	9/14/2011
Intelight	2070E	1.4.3.2.0.11	

**CMS 733.02 G (2070LX CONTROLLERS)(CONTROLLER UNIT TYPE 2070E WITH 2070-IC CPU):**

Manufacturer	Model / TEES compliance	Build Number	Build Date
Econolite/Safetran	2070C	06.06.00	5/24/2016
Intelight	2070LDX	1.9.5 Build 495	1/27/2017
Siemens	2070LX	1.4.0.0.0.0	8/1/2016

**CMS 733.03C,E (Caltrans 332, 336 Cabinets):**

Manufacturer	Model / TEES Compliance	Part Number	Comment
Econolite/Safetran	332L / 2009	ZCAB-3321-OH	add "G" suffix for gen. panel
Econolite/Safetran	336L / 2009	ZCAB-336SL	add "G" suffix for gen. panel
McCain	332L / 2009	M48091-332L	with generator panel
McCain	332L / 2009	M36126-332L	w/o generator panel
McCain	336L / 2009	M48093-336L	with generator panel
McCain	336L / 2009	M36124-336L	w/o generator panel
Intelight	332L / 2009	8001-L	
Intelight	336L / 2009	80021-L, 83331-L	
Mobotrex	332L / 2009	JBS2332LTOH01	w/206L power supply
Mobotrex	336L / 2010	JBS2336LTOH01	w/206L power supply

**809.05.A - CCTV IP-Camera System, Dome-Type**

Manufacturer	Model	Part Number	Comment
TKH/Optelecom / Siquira	HSD820v2H3	HSD820/E	Provide with Local Camera Control Unit and AMP Connector/Adapter
COHU	3920	3920 SD24-1000	Provide with Local Camera Control Unit and AMP Connector/Adapter

**809.05.B - CCTV IP-Camera System - Tunnel / Wall**

Manufacturer	Model	Part Number	Comment
COHU	3960	3960 HD37-8000	Provide with Local Camera Control Unit and AMP Connector/Adapter
Wireless Technologies Inc	Sidewinder	SW720-24-H.264-HD30	Provide with Local Camera Control Unit and AMP Connector/Adapter

<b>809.05.C - CCTV IP-Camera System - Portable</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Mobile Pro Systems	Commander 3400	MPS3400-15735-1	w/ both generator and solar charging options
Wanco	WCT-YX	WCT-YX-0000-09A	w/ both generator and solar charging options
Systems shall be configured with cameras listed in 809.05.A or 809.05.B or POE versions of those listed			

<b>809.05.D - CCTV IP-Camera - Local Camera Control Unit</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Treehaven Technologies	RV5FB120RNET		

<b>809.06.A - CCTV Concrete Pole with Lowering Unit</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
MG Squared		CLDMG2-HYPIP+7-082CON-WCD-PELIC	Including 130 ft of composite cable

<b>809.06.B - CCTV Lowering Unit</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
MG Squared		CLDMG2-HYPIP+7-070MH	Including 130 ft of composite cable

<b>809.07.A - Dynamic Message Sign (DMS) - Full-Size Walk-In</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Daktronics	VF-2020	Ohio DOT-2015-VF-2020-27x105-66-A	Monochrome Display
Daktronics	VF-2020	Ohio DOT-2015-VF-2020-96x336-20-RGB	Color Display

<b>809.07.B - Dynamic Message Sign (DMS) - Front-Access</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Daktronics	VF-2420	Ohio DOT-2015-VF-2420-27x60-66-A	Monochrome Display
Daktronics	VF-2420	Ohio DOT-2015-VF-2420-96x192-20-RGB	Color Display

<b>809.07.C - Destination Dynamic Message Sign (DDMS) - Freeway</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Daktronics	VM-1020	Ohio DOT-2015-VM-1020-7x15-66-A	Monochrome Display

<b>809.07.D - Destination Dynamic Message Sign (DDMS) - Arterial</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Part Number</b>	<b>Comment</b>
Daktronics	VM-1020	Ohio DOT-2015-VM-1020-7x15-46-A	Monochrome Display

809.08.A - Highway Advisory Radio (HAR) Assembly			
Manufacturer	Model	Part Number	Comment
MH Corbin	BlackMax	ODOT-HAR2014-01	

809.08.B - Highway Advisory Radio (HAR) Flashing Beacon System			
Manufacturer	Model	Part Number	Comment
MH Corbin	Flashing Beacon Controller	ODOT-CMC-100	

809.09.A ITS Cabinet - Ground-Mounted			
Manufacturer	Model	Part Number	Comment
Southern Manufacturing		SOUH-WE334-ODOT-ITS-B	
Traffic Control Products		ITS-332-V4.2	

809.09.B ITS Cabinet - Pole-Mounted			
Manufacturer	Model	Part Number	Comment
Southern Manufacturing		SOUH-WE3RAL1-8T462422	
Traffic Control Products		ITS-336-V4.2	

809.09.C ITS Cabinet - Power Distribution Cabinet (PDC)			
Manufacturer	Model	Part Number	Comment
Southern Manufacturing		Ohio DOT PDC Cabinet	
Traffic Control Products		ITS-PDC-V4.2	

809.09.D ITS Cabinet - Ramp Meter			
Manufacturer	Model	Part Number	Comment
All Submittals to be sent to ODOT Traffic Operations for Approval			

809.10.A Closed Loop Arterial Traffic Signal System			
Manufacturer	Product	Model\Part\Build #	Comments
Siemens	Tactics Marc	Tactics Ver 3.0.2 or later	Requires SEPAC and SEMARC equipped field controllers
McCain, Inc.	Transparity TMS	TMS	
Econolite Control Products	Aries TMS	34500G1 ver 3.82 or later	
Intelight	MaxView Closed Loop	1.7.31 or later	
Wapiti Micro Systems	Traffic View 32	1.50.19 or later	

809.10.B Centrally Controlled Arterial Traffic Signal System			
Manufacturer	Product	Model\Part\Build #	Comments
Siemens	Tactics Central (Up to 100 Intersections), Enterprise (Over 100 Intersections)	Tactics	Requires SEPAC / SEMARC / TEMPO equipped field controllers
		Tactics Ver 3.0.2 or later	
McCain, Inc.	Transparity TMS	TMS	
Econolite Control Products	Centracs ATMS	Ver 1.10.12.13 or later	
Intelight	MaxView ATMS	1.8.10015.517 or later	

**809.10.C Highway Rail/Traffic Signal Pre-emption**

Manufacturer	Product	Model\Part\Build #	Comments
Siemens	SEPAC for M-50 Series of Traffic Controllers and 2070E	M-52, 2070E, with SEPAC 3.34h Software or later	Requires SEPAC equipped field controllers
Econolite Control Products	ASC3 NEMA Controller	2.58.00 or later	
Econolite Control Products	ASC3 2070 Software	22.58.00 or later	
Econolite Control Products	Cobalt Touch - NEMA Controller	32.58.00 or later	

**809.10.D Traffic Signal System with Emergency Vehicle Pre-emption**

Manufacturer	Product	Model\Part\Build #	Comments
Siemens	SEPAC for M-50 Series of Traffic Controllers and 2070E	M-52, 2070E, with at least SEPAC 3.34h Software	Requires SEPAC equipped field controllers
Econolite Control Products	ASC3 NEMA Controller	2.58.00 or later	
Econolite Control Products	ASC3 2070 Software	22.58.00 or later	
Econolite Control Products	Cobalt Touch - NEMA Controller	32.58.00 or later	
Wapiti Micro Systems	Right O' Way Emergency Pre-emption System	R.O.W. 2R	Acoustic Pre-emption
Emtrac Systems	RF-GPS Priority Detector	ST-9283	GPS Pre-emption
Emtrac Systems	Optical Priority Detector	ST-9320 / ST-9340	Optical Pre-emption
Tomar Electronics, Inc.	Optical Intersection Equipment	4000 Series Strobecom II Optical Signal Processors and Detectors	
Tomar Electronics, Inc.	Optical Intersection Equipment	OSPOC Series Optical Signal Processors	
Tomar Electronics, Inc.	Optical Intersection Equipment	DETOC Series Detectors	
Tomar Electronics, Inc.	Optical Vehicle Equipment	3065 Series Emitters	
Tomar Electronics, Inc.	Optical Vehicle Equipment	T792 Series Emitters	
Global Traffic Technologies	GPS Intersection Equipment	Opticom Model 764 Phase Selector - Intesection Antenna Model 3100 (Pole Mount) or Model 3101 (Cabinet Mount)	Optional Card Rack Model 760, 1040, or 770 if required, 768 Aux. Interface Panel if required, 1070 Detector Cable (length to be determined) Model
Global Traffic Technologies	Optical Intersection Equipment	Opticom Model 762 or 764 Phase Selector - 711, 721 or 722 Detectors Opticom	Optional Card Rack Model 760 or 770 if required, 768 Aux. Interface Panel if required, 768 Model 138 Detector Cable (length to be determined)
Global Traffic Technologies	GPS Vehicle Equipment	Opticom GPS Vehicle Equipment	Opticom 2100
Global Traffic Technologies	Optical Vehicle Equipment	Opticom 794H-LED Emitter, Opticom 792H or 792HF Strobe Emitter	
Global Traffic Technologies	Multimode (Optical & GPS) Vehicle Equipment	Opticom 794HM LED Emitter	For GPS Operation must include Model 2100 GPS Radio
Traffic Systems LLC	Audible Intersection Equipment	SONEM 2000	Acoustic Pre-emption

**809.10.E Traffic Signal System with Transit Priority**

Manufacturer	Product	Model\Part\Build #	Comments
Siemens	SEPAC for M-50 Series of Traffic Controllers and 2070E	M-52, 2070E, SEPAC 3.5.3 Software or later	Requires SEPAC equipped field controllers
Econolite Control Products	ASC3 NEMA - TSP Datakey	2.58.00 or later	Enabled via special datakey
Econolite Control Products	ASC3 2070 - TSP datakey	22.58.00 or later	Enabled via special datakey
Econolite Control Products	Cobalt Touch - TSP datakey	32.58.00 or later	Enabled via special datakey
Global Traffic Technologies	GPS Intersection Equipment	Opticom Model 764 Phase Selector - Intesection Antenna Model 3100 (Pole Mount) or Model 3101 (Cabinet Mount)	Optional Card Rack Model 760 or 770 if required, 768 Aux. Interface Panel if required, 1070 Detector Cable (length to be determined) Model
Global Traffic Technologies	Optical Intersection Equipment	Opticom Model 762 or 764 Phase Selector - 711, 721 or 722 Detectors Opticom	Optional Card Rack Model 760 or 770 if required, 768 Model 138 Aux. Interface Panel if required, 768 Model 138 Detector Cable (length to be determined)
Global Traffic Technologies	GPS Vehicle Equipment	Opticom GPS Vehicle Equipment	Opticom 2101
Global Traffic Technologies	Optical Vehicle Equipment	Opticom 794T or 794L LED Emitter, Opticom 792L or 792T Strobe Emitter	
Global Traffic Technologies	Multimode (Optical & GPS) Vehicle Equipment	Opticom 794TM LED Emitter	For GPS Operation must include Model 2101 GPS Radio

**809.10.F Adaptive Traffic Control System**

Manufacturer	Product	Model\Part\Build #	Comments
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809.10.H ATC V5.2b Controller			
Manufacturer	Product	Model\Part\Build #	Comments
All Submittals to be sent to ODOT Traffic Operations for Approval			

809.11.A Ramp Meter System - Verify with ODOT Traffic Operations before selecting product.			
Manufacturer	Product	Model\Part\Build #	Comments
Intelight	MaxTime Ramp Meter	1.1.9	

809.12.A - Side-Fired Radar Detector -Currently Listed for ODOT Use Only			
Manufacturer	Model	Part Number	Comment
Image Sensing Systems	Sx-300		

809.12.B - Advance Radar Detection			
Manufacturer	Model	Part Number	Comment
Wavetronix	SmartSensor Advance	SS200V	
Wavetronix	SmartSensor Advance Extended Range	SS200E	

809.12.C - Stop-Bar Radar Detection			
Manufacturer	Model	Part Number	Comment
Wavetronix	SmartSensor Matrix	SS225	