

State of California Qualified Products List

General

The assemblies listed below have been tested by the California Department of Transportation Laboratory and found to be compliant to the Transportation Electrical Equipment Specifications (TEES), dated November 5, 2020, Errata Dated September 29, 2023, Chapter 4 BBS Dated November 5, 2020, Chapter 8 Specifications for CMS System Dated November 5, 2020, Chapter 12 Green Technology BBS Dated November 5, 2020 and Chapter 13 CMS Model 700 Series, Errata 1 Dated December 24, 2021.

The effective period of this QPL is indeterminate. Manufacturers, not on the list, who want their assemblies or units tested in order to be added to the QPL for future bids should submit a written request to the Mobility Systems Hardware Branch Chief.

When purchasing these assemblies, only those listed below will be considered.

Contacts

For question about the QPL, please contact the following:

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Model 2070LX Chassis

Q-FREE Intelight	Mother Board Rev C1
SWARCO McCain, Inc	
Safetran	

Model 2070LX+ Chassis

Safetran	
SWARCO McCain, Inc	

Model 2070-1C CPU Module

Safetran	<p>Model 2070-1C with following boards:</p> <ul style="list-style-type: none"> • ASSY 119-1033-501 Rev C CPU Host • ASSY 119-1032-501 Rev T Engine Board • ASSY 119-1097-501 Rev B Engine Board USB <p>Model 1C with following boards:</p> <ul style="list-style-type: none"> • 119-1033-501 rev C • mother board rev G
Q-FREE Intelight	<p>Model 2070-1C with following boards:</p> <ul style="list-style-type: none"> • Assy 5203 2070-1C Rev A2 PCB-5203-01A2-311-3 Engine Board (MPC8248) Rev G2
SWARCO McCain, Inc	<p>Model 2070-1C with following boards:</p> <ul style="list-style-type: none"> • M52803 Rev B Host • M86487 Rev A2 Engine Board • M86487 Rev X2 Engine Board

Model 2070-4A Power Supply Module

Jasper Electronics	<p>Model TC2070-4A +Pfc, Rev X01, PN 04160-907-G</p> <p>Model 2070-4A PFC Rev A PN 04160-907G</p>
Dongah Elecomm	Model: 2070-4A, version 1.0

Model 2070-6A Modem

GDI Communications, LLC	Model: 2070-6A
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Model 2070-6B Modem

GDI Communications, LLC	Model: 2070-6B
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Model 2070-6D Modem

GDI Communications, LLC	Model: 2070-6D
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Model 2070-7A Serial Com Module

GDI Communications, LLC	Model: 2070-7A
Safetran	Model: 2070-7A
SWARCO McCain, Inc	Model: 2070-7A
Trafficware Naztec	Model: 2070-7A
Yunex Traffic, a Siemens Business	Model: 2070-7A
Q-FREE Intelight	Model: 2070-7A

Model 2070-7B EIA-485 Serial Com Module

GDI Communications, LLC	Model: 2070-7B
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Model 2070-7G Universal Time Base Module

SWARCO McCain, Inc	Model: 2070-7G
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Model 2070-6W Wireless Modem Com Module

GDI Communications, LLC	Model: 2070-6W
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Model 2070-6E Serial 2 Network Com Module

GDI Communications, LLC	Model: 2070-6E
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Model 2070-9D Dial-Up Modem Com Module

GDI Communications, LLC	Model: 2070-9D
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Model 2070-9A FSK/Dial-Up Modem Com Module

GDI Communications, LLC	Model: 2070-9A
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Model 2070-9B FSK/Dial-Up Modem Com Module

GDI Communications, LLC	Model: 2070-9B
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Model 2070-J Network Jack Module

GDI Communications, LLC	Model: 2070-J
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Model 2070-WE Wireless Ethernet Communications Module

GDI Communications, LLC	Model: 2070-WE
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Model 200 Switch Packs

GDI Communications, LLC	Model: 200, Rev. A
Power Distribution & Control Ltd (PDC)	Model: 200, SSS-88
Traffic Sensor Corporation (TSC)	Model: 200, 83A059A (C/N SP4200)

Model 204 Flashers

GDI Communications, LLC	Model: 204, Rev. A
Power Distribution & Control Ltd (PDC)	Model: 204, SSF-88
Traffic Sensor Corporation (TSC)	Model: 204, C/N FU 4204

Model 206L Power Supply Module

Eberle Design Incorporate (EDI)	Model: 206L
Jasper Electronics	Model: 206L, Rev. D (only serial numbers from 03554 to 05032)
Jasper Electronics	Model: 206L, Rev. E
ETA-USA	Model: 206L

Model 206E Power Supply Module

Jasper Electronics	Model: 206E, Rev. E
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Model 700 Power Supply Module

Jasper Electronics	Model: PS700
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Model 206LS Power Supply Module

Jasper Electronics	Model: 206LS
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Model PDA2LS Power Supply Module

Jasper Electronics	Model: PDA2LS
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Model 208 Monitor Unit

SWARCO McCain, Inc	Model: 208
Safetran	Model: 208

Model 210 Monitor Unit

Eberle Design Incorporate (EDI)	Model: 210
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Model 280 Input File Ethernet Unit

GDI Communications, LLC	Model: 280
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Model 222 Two-Channel Loop Detectors

Diablo Controls, Inc.	Model: 222
Eberle Design Incorporated (EDI)	Model: 222
Northstar Controls, LLC	Model: 222
Reno A & E	Model: 222

Model 222i Two-Channel Intelligent Loop Detectors

CLR Analytics Inc	Model: 222i
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Model 224i Four-Channel Intelligent Loop Detectors

Global Traffic Technologies (GTT)	Model: 9004
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Model 231 Magnetic Detector Element

M-Systems, Inc.	Model: 231
Nova Tech, LLC	Model: 231
Traffic Systems, Inc.	Model: 231

Model 232 Dual Magnetic Detector Sensor Unit

M-Systems, Inc.	Model: 232
Nova Tech, LLC	Model: 232
Traffic Systems, Inc.	Model: 232

Model 242L Two-Channel DC Isolators

GDI Communications, LLC	Model: 242L
Eberle Design Incorporate (EDI)	Model: 242L
Power Distribution & Control Ltd (PDC)	Model: 242L

Model 252 Two-Channel AC Isolators

GDI Communications, LLC	Model: 252
Power Distribution & Control Ltd (PDC)	Model: 252

Model 332LS Cabinets

Safetran	Model: 332LS
SWARCO McCain, Inc	Model: 332LS

Model 334LS Cabinets

Safetran	Model: 334LS
SWARCO McCain, Inc	Model: 334LS

Model 334LC Cabinets

SWARCO McCain, Inc	Model: 334LC
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Model 342LX Cabinets

Safetran	Model: 342LX
SWARCO McCain, Inc	Model: 342LX

Model 344LX Cabinets

Safetran	Model: 344LX
SWARCO McCain, Inc	Model: 344LX

Touch-Safe Field Terminal Panels, FTP-1LX

Weidmuller	Model: FTP-1LX
Phoenix	Model: FTP-1LX
Wieland	Model: FTP-1LX, Rev. 1.0x

Touch-Safe Field Terminal Panels, FTP-2LXR

Weidmuller	Model: FTP-2LXR
Wieland	Model: FTP-2LXR, Rev. 1.0x

Touch-Safe Field Terminal Panels, FTP-2LX

Weidmuller	Model: FTP-2LX
Wieland	Model: FTP-2LX, Rev. 1.0x

Touch-Safe Field Terminal Panels, FTP-T4

Weidmuller	Model: FTP-T4
Wieland	Model: FTP-T4 Rev. 1.0x

Model 420, Auxiliary Output File

Safetran	Model: 420
SWARCO McCain, Inc	Model:420

Model 520, Auxiliary RR Output File (Including C16 Harness)

SWARCO McCain, Inc	Model:520
Safetran	Model:520

Model 207 Integrated Power Filter/Arrestor

HESCO	Model: HE1750 TEES
EDCO(EMERSON)	Model: SHA-1250-ITS
SWARCO McCain, Inc	Model: SHA-1250-ITS
Safetran	Model: HE1750 TEES

Model 400 Modems

GDI Communications, LLC	Model: 400, Version F
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Model 400N Ethernet Module

GDI Communications, LLC	Model: 400N
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C1 Harness

Safetran	Model: C1 Harness
SWARCO McCain, Inc	Model: C1 Harness

C2 Serial Harness

Rose Supply Company	Model: C2PS
General Devices Incorporated (GDI)	Model: C2PS
SWARCO McCain, Inc	Model: C2PS
Safetran	Model: C2PS

C2 Modem Harness

Rose Supply Company	Model: C2P
GDI Communications, LLC	Model: C2P
SWARCO McCain, Inc	Model: C2P
Safetran	Model: C2P

C11 Harness

Safetran	Model: C11 Harness
SWARCO McCain, Inc	Model: C11 Harness

Model 500, 510, 520 Changeable Message Sign (CMS)

LedStar	Model: 500, 510, 520
SWARCO McCain, Inc	Model: 500, 510, 520

CMS 500 Harness

LedStar	Model: 500, 510, 520
SWARCO McCain, Inc	Model: 500, 510, 520

CMS 500 5KVA Transformer

LedStar	Model: 5KVA
SWARCO McCain, Inc	Model: 5KVA
Jefferson Electric	Model: 5KVA

Model CMS 500 Pixel Matrix Module (PMM)

Adaptive Micro Systems Inc.	Model: 12073001 (Model 500/510)
SWARCO McCain, Inc	Model: M65028 (Model 500) Model: M63096 (Model 510)
Optec Displays Inc.	Model: 7040-Y16-5X8 PxMM (Model 500/510)

Green Technology Battery Back-Up System (GT-BBS)

Battery Back-up System (BBS)

Alpha Technologies, LTD.	Model: FXM-1100
Clary Corporation	Model: SP1250LX
Myers Emergency Power Systems	Model: MP-2000E
Marathon Power	Model: TRTC-2004-N1
Newmar	Model: AC-UPS-48-1200

External BBS Cabinet

Alpha Technologies	Model E-BBS
Tesco	Model E-BBS
Myers Emergency Power Systems	Model E-BBS
SWARCO McCain, Inc	Model E-BBS
Econolite	Model E-BBS

LX-BBS Cabinet

Safetran	Model LX-BBS
SWARCO McCain, Inc	Model LX-BBS

Model 700, 710, 720 Changeable Message Sign (Amber CMS)

Optec Displays Inc.	Model 700, 710, 720
SWARCO McCain, Inc	Model 700, 710, 720
SolarMax	Model 700, 710, 720

Model CMS 700 Pixel Matrix Module (Amber PMMs)

Optec Displays Inc.	Model 700, 710, 720
SWARCO McCain, Inc	Model 700, 710, 720
SolarMax	Model 700, 710, 720

Model 700C, 710C, 720C Changeable Message Sign (Color CMS)

SWARCO McCain, Inc	Model 700, 710 and 720
SolarMax	Model 700, 710 and 720
Ledstar	Model 700, 710 and 720

Model CMS 700C, 710C, 720C Pixel Matrix Module (Color PMMs)

SolarMax	Model 700, 710 and 720
Ledstar	Model 700, 710 and 720

Model 700 Series Test Box

SWARCO McCain, Inc	Model TB700
SolarMax	Model TB700
Ledstar	Model TB700

Model 700 Series Remote I/O Box

SWARCO McCain, Inc	Model RIO700
SolarMax	Model RIO700
Ledstar	Model RIO700

CMS Controller Isolation Assembly (CIA)

SWARCO McCain, Inc	Model CIA
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CMS 800, 810, 820 Changeable Message Sign (Color CMS)

SWARCO McCain, Inc	Model 800, 810, 820
SolarMax	Model 800, 810, 820

CMS 800, 810, 820 LED Board 20mm Pixel Panels

SWARCO McCain, Inc	Model 800, 810, 820
SolarMax	Model 800, 810, 820

CMS 800, 810, 820 Rainbow Controller

SWARCO McCain, Inc	Model 800, 810, 820
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CMS 800, 810, 820 Test Box

SWARCO McCain, Inc	Model 800, 810, 820
SolarMax	Model 800, 810, 820

Terms

1. Qualifier to Qualified Products List (QPL)

A manufacturer's listing on the QPL does not waive any of the requirements of the specifications or relieve the manufacturer/vendor of any obligation there under. Defective work, materials and equipment will be rejected.

In short, all equipment submitted must comply with current specifications. Product will be removed from QPL for failure to perform satisfactorily on purchase orders by failing to meet delivery schedules and/or failure to maintain a high rate of acceptance.

2. Sample Units

QPL evaluation requires the manufacturer to submit (2) samples of the product (excludes cabinets and CMS).

3. Manual

Manufacturer is expected to provide complete manual as specified in TEES 1.2.4.1. Two manual copies must be provided with each submittal.

4. Non-Disclosure Agreements

All information specified in the manual is required for a product to be on the Qualified Product List. Caltrans will not sign a non-disclosure agreement.

5. Testing

A test report will be provided to the manufacturer for the submitted units. The wait time for sample unit submitted for testing are (6) months for new units, (4) months for previously tested units, (3) months for the failed units resubmitted.

A 90-day period will be provided to manufacturer to resolve non-compliances found on listed units. If the issue isn't resolved the unit will be removed from the QPL. Manufacturer is responsible for all shipping expenses related to QPL evaluation.

Manufacturer must provide detailed testing procedures including equipment used, software, and personnel.

6. Revisions

Manufacturers are required to notify the TEES Branch Chief of any proposed changes affecting design or performance in the product that has been approved. THIS INCLUDES ALL COMPONENTS LISTED IN MANUALS AND ALL ENGINEERING CHANGES.

If a substantive change is identified, the product will be required to be resubmitted for QPL evaluation. All units shall have a revision number to be identified by. If specifications compliance issues are identified after approval, manufactures are responsible for correcting these issues.

7. Controller QPL

A manufacturer is considered to have a fully compliant controller if all controller components have passed QPL testing in accordance with TEES 9.1.1. Manufacturer's do not need to manufacture each component, but they must submit a QPL unit that has only passed components.