

2070LX Controller

Cabinets

Controllers

Signals

Signs

Software

Specialty



Overview

McCain's 2070LX Controller is designed in full compliance with the 2009 Caltrans Transportation Electrical Equipment Specifications (TEES), is included on the Caltrans QPL as of the date of this document, and is part of McCain's ATC controller family. The controller is a ruggedized, multi-tasking field processor and communications system configurable for a variety of traffic management applications. It is interchangeable with standard 170 and 2070 controllers, allowing users to upgrade existing intersections to a higher performance platform without replacing cabinet hardware.

Benefits

- Supports a variety of applications through modular design
- Allows users to upgrade to a more modern platform without replacing cabinet hardware
- Enables compatibility with off-the-shelf products and intersection control software

Product Description

The McCain 2070LX Controller is designed to control signalized intersections, though it can be used for a multitude of applications. Based on the software control package utilized, the control applications can expand to include ramp metering, variable message signs, sprinklers, pumps, and changeable lane control.

The controller's modular design allows various configurations based on the desired application.

A Linux operating system affords a robust, flexible, and open-architecture platform that is compatible with multi-vendor application control software.

2070LX Controller

Standard Features

Operating system

- Linux

Modules (standard, included)

- 2070-1C CPU Module
- 2070-2E+ Field I/O Module
- 2070-4A Power Supply
- 2070-LX Front Panel Module

Microprocessors

- MPC8360E Freescale PowerQUICC II Pro

Memory

- 256MB DRAM
- 16MB Flash memory NOR
- 256MB Flash memory NAND
- 2MB non-volatile SRAM
- SD card slot

Backup real-time clock (RTC)

- Maxim DS1390

Applicable standards

- Caltrans TEES 2009

Interfaces

Communication interfaces

- SDLC ports (up to 5)
- Asynchronous (up to 7)
- ENET 1: 100 Base – T Ethernet switch, 1 uplink and 3 additional ports
- ENET 2: 100 Base – T Ethernet port dedicated for local communications
- USB port

Front panel interface

- 8 line x 40 characters display
- 3 x 4 navigation keyboard
- 4 x 4 data entry keypads

Cabinet interfaces

- C1S, C11S, and C12S rear connectors

Software

Compatible with McCain's Omni eX® Intersection Control Software. (See separate data sheet for details).

General Specifications

Style:	Caltrans 2070
Dimensions:	19" W x 7" H x 13" D (rounded to the nearest inch)
Form Factor:	EIA rack mount compatible
Power:	89VAC to 135VAC, 60 Hz (± 3 Hz)
Environment:	Operating Temperature: -37°C to +74°C Humidity: 0 to 95% (non-condensing)
Weight:	12 lbs (± based on final module selection)

Options

- *Omni eX* Intersection Control Software
- Available modules
 - 2070-2B field I/O module for ITS (SP5) / NEMA (SP3) cabinet applications
 - 2070-4A-220 international voltage: 190VAC to 253VAC, 50 Hz (± 3 Hz)
 - 2070-6A dual 1200 baud modem
 - 2070-6B dual 9600 baud modem
 - 2070-7A async comm module

To learn more about
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