

2070 Controller Modules

Cabinets

Controllers

Signals

Signs

Software

Specialty

CPU Modules
I/O Modules
GPS Time Sources
Front Panel Displays
Power Supplies
NEMA Adapter
Chassis



Overview

McCain manufactures a variety of 2070 Controller Modules in full compliance the California Department of Transportation (Caltrans) Transportation Electrical Equipment Specifications (TEES). By combining these modules, customers can easily configure model 2070 controllers to meet their specific needs.

Benefits

- Easily upgrades current intersection hardware
- Rugged and reliable modules
- Modern, efficient designs
- Modular design for a variety of configuration options

Product Description

McCain 2070 Controller Modules, based on the module(s) and software control package utilized, control applications that include: intersection control, ramp metering, variable message signs, sprinklers, pumps, and changeable lane control.

Permitted by the modular design of 2070 controllers, McCain modules facilitate matching the hardware configuration to your individual requirements.

McCain offers a variety of 2070 modules that can easily upgrade your existing equipment to meet your overall Intelligent Transportation System (ITS) goals without the need to purchase new cabinets.

2070 Controller Modules

CPU Module

CPU modules contain the controller's operating system, microprocessor, memory, and essential computing devices.

2070-1B	TEES 2002, OS-9 RTOS, 8MB PSRAM, 8MB flash memory, 2MB non-volatile SRAM, up to 5 SDLC ports, up to 7 ACIA ports, 10MBPS Ethernet port
2070-1E	TEES 2009, OS-9 RTOS, 32MB PSRAM, 8MB flash memory, 2MB non-volatile SRAM, up to 5 SDLC ports, up to 7 ACIA ports, 4 10/100MBPS Ethernet ports
2070-ATC	400 MH Core Speed, Linux OS, 128MB DDR RAM, 16MB flash memory, 2MB non-volatile SRAM, up to 5 SDLC ports, up to 7 ACIA ports, 4 10/100MBPS Ethernet ports, 2 USB ports
2070-1C	TEES 2009, Linux OS, 256MB DDR Ram, 16MB NOR flash memory, 256MB NAND flash memory, 2MB non-volatile SRAM, up to 5 SDLC ports, up to 7 ACIA ports, 3 10/100MBPS Ethernet ports, 1 USB port

I/O Modules

I/O modules provide the physical interface between the controllers and the field equipment.

2070-2A	Field I/O Caltrans 170/ 2070 cabinets, TEES 2002
2070-2B	Field I/O NEMA TS 1/TS 2 Type 2 (with 2070-8) Field I/O ITS
2070-2E	Field I/O Caltrans 170/ 2070 cabinets, TEES 2009
2070-2N	Field I/O NEMA TS 2 Type 1

GPS Modules

GPS time source modules provide accurate time-of-day.

2070-7G	GPS module for 2070 controllers
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2070-7G GPS Module

To learn more about McCain's Integrated Traffic Solutions, please contact info@mccain-inc.com or call (760) 727-8100



Front Panel Displays

Front panels provide the physical user interface to monitor and program controllers. The backlit LCD screen displays text and can be adjusted by a contrast knob.

2070-3A	Large font LCD panel module: 4 lines x 40 characters, 3 x 4 navigation keypad, 4 x 4 data entry keypad
2070-3B	Small font LCD panel module: 8 lines x 40 characters, 3 x 4 navigation keypad, 4 x 4 data entry keypad

Power Supply

Power supply modules provide voltage requirements as needed by other modules. AC line and EMI suppression circuitry is included.

2070-4A	Power supply module 10 A
2070-4B	Power supply module 3.5 A

Communications Modules

Communications modules provide the interface between the controller and the central system software.

2070-6A	Dual 1200 baud modem (GDI)
2070-6B	Dual 9600 baud modem (GDI)
2070-7A	Dual RS232 serial ports
2070-7B	Dual RS485 serial ports

NEMA Adapter

Adapters transform standard model 2070 controllers into NEMA compliant controllers.

2070-8	NEMA adaptor (with 2070-2B)
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Chassis

Chassis house all modules to create a self-contained unit.

2070 chassis with serial motherboard
Cover plate for 2070 card slot, 1x wide
Cover plate for 2070 card slot, 2x wide

General Specifications

Form Factor:	2070 standard
Circuit Board Material:	.063", double-sided, FR4, solder masked, with plated through holes, gold-plated finger contacts, conformal coated
Environment:	Operating temperature: -37°C to +74°C Humidity: 0 to 95% (non-condensing)