

ATC eX 2070 Controller



2070 Controller



ATC eX 2070 Module

Cabinets

Controllers

Signals

Signs

Software

Specialty

Overview

McCain's ATC eX 2070 controller is an advanced, multi-application controller that simultaneously supports multiple software applications through a single platform. Designed from the ground-up based on ATC (Advanced Transportation Controller) 5.2b standards, the ATC eX 2070 controller provides revolutionary flexibility and control. The ATC eX 2070 is available as a new 2070 style controller with the ATC eX 2070 module already installed or as a direct, plug-in replacement for the 2070-1B CPU module. This allows end users to upgrade existing intersections to a modern, high-performance platform by either replacing existing controllers with the ATC eX 2070 controller or by replacing the 2070-1B CPU module in an existing 2070 installation with the ATC eX 2070 CPU module and upgrading an NTCIP compliant local control software.

Benefits

- Compliant with ATC 5.2b standards
- Caltrans TEES compatible
- Interchangeable with standard 170 style cabinet without the need to replace cabinet hardware
- Robust, open-architecture Linux platform supports application software from multiple vendors
- Multi-tasking ability minimizes the amount of hardware required at intersections
- Wide variety of communication options for connectivity in any environment

Product Description

The McCain ATC eX 2070 controller is a revolutionary, multi-application 2070 compatible controller, fully compliant with ATC 5.2b standards.

The ATC eX NEMA controller features a wide variety of communications options, including a standard 3-port hardened switch, four USB ports, serial, and Ethernet for secure connectivity in any kind of environment. Quick data transfers, firmware upgrades, and log retrievals can be done via USB.

Each controller is built to McCain's stringent, high-quality manufacturing standards, ensuring long-lasting performance in all environments.

The controller's Linux operating system provides a robust, flexible, open-architecture platform that can support application software from multiple vendors.

ATC eX 2070 Controller

Hardware Features

Operating system

- Linux

Microprocessors

- Freescale PowerQUICC II Pro microprocessor

Memory

- 16MB Flash memory
- 128MB DDR RAM (expandable)
- 2MB Non-volatile SRAM

Backup Real-Time Clock (RTC)

Applicable standards

- ATC 5.2b
- Caltrans TEES (where applicable)
- All applicable NTCIP base standards



Back of 2070 controller showing
ATC eX 2070 module installed

Controller Interfaces

Communication interfaces

- SDLC ports (2)
- Serial (asynchronous) (4)
- ENET 1: 100 Base-T Ethernet switch, 1 uplink, and 3 additional ports
- ENET 2: 100 Base-T Ethernet port dedicated for local communications (i.e. laptop or similar)
- USB ports (2)

Front panel interface

- Display: 8 lines x 40 characters
- Keyboard: 3 x 4 navigation and 4 x 4 data entry keypads

Cabinet interfaces

- Rear connectors C15, C11S, C12S

General Specifications

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

Options

- 256MB DDR memory expansion
- Optional modules
 - 2070-4A-220 international voltage power supply:
190VAC to 253VAC, 50 Hz (\pm 3 Hz)
 - Various modems (2070 form factor)
 - GPS module

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



2365 OAK RIDGE WAY // VISTA, CALIFORNIA 92081 // USA // WWW.MCCAIN-INC.COM

© 2012 McCain Inc. Updated 11/16/12. McCain reserves the right to change product specifications without notice.
For the most up-to-date information, please contact McCain.