ATC eX 2070 CONTROLLER

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 5.2b standard, the ATC eX 2070 Controller provides revolutionary flexibility and control. The controller is available as a new 2070 style controller with the 2070 ATC CPU 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 the entire controller or by just replacing the 2070-1B CPU module in an existing 2070 installation with the 2070 ATC CPU module and upgrading an NTCIP compliant local control software.

Benefits

- Provides means to easily upgrade 170 or 2070 controllers/cabinets without the need to replace cabinet hardware
- Supports multiple vendor application software through robust, open-architecture Linux platform
- Minimizes hardware requirements at intersections with multi-tasking ability
- Connects in any environment through a wide variety of communication options
- Meets ATC 5.2b standards

Product Description

The McCain ATC eX 2070 Controller is a revolutionary, multi-application controller designed in full compliance with the ATC 5.2b standard.

The controller features a wide variety of communications options, including a standard 3-port hardened switch, 2 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 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.

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ATC eX 2070 Controller

Standard Features

Operating System
- Linux

Modules (standard, included)
- 2070 ATC CPU module
- 2070-2B or 2070-2E Field I/O module
- 2070-3B LCD front panel module
- 2070-4A Power supply

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)
- NTCIP base standards (where applicable)

General Specifications

Dimensions:	7" H x 19"W x 13" D (rounded to the nearest inch)
Form Factor:	EIA rack mount compatible
Power:	89 VAC to 135 VAC, 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 configuration)

2070 ATC CPU module

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 C1S, C11S, C12S

Options

- 256MB DDR memory expansion

Optional modules
- 2070-4A-220 international voltage power supply: 190VAC to 253VAC, 50 Hz (± 3 Hz)
- 2070-6A Dual 1200 baud modem
- 2070-6B Dual 9600 baud modem
- 2070-7A Dual RS232 serial ports
- GPS module

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