FLeX® ATC CONTROLLER

Overview

McCain's FLeX® ATC Controller represents the latest design in the company's ATC eX series of advanced transportation controllers. Leveraging a Linux engine board, the controller has a real-time, open source operating system that supports the latest Intelligent Transportation Solution (ITS) applications including high-resolution data collection and V2X/connected vehicle applications. Measuring just 5.5" tall, the compact design is available in both shelf and rack mount versions, offering speed and performance for any ATC or Caltrans cabinet configuration.

Benefits

- Meets or exceeds latest ATC/ITE industry standards
- Oversized display with split-screen option for users operating Omni eX® Intersection Control Software
- Open architecture Linux platform
- Supports high-resolution data collection
- Connects in any environment through a wide variety of communication options
- Enables remote access and control through web-based user interface (for users with wi-fi option, proper network, and software)

Product Description

The McCain *FLeX* ATC Controller is a revolutionary transportation controller designed in full compliance with the published ATC 6.24 standards. By embodying the intent and flexibility of these industry standards, the *FLeX* ATC Controller offers users unprecedented speed and performance to meet the needs of today and tomorrow.

The controller features an oversized 16-line display and front panel access to a variety of communication options - USB, SD card, Ethernet, and Datakey - that make it easy to connect, program, and update. Optional wi-fi integration allows users to access local software through a web interface.

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

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FLeX® ATC Controller

Standard Features

Operating System
- Linux

Microprocessors
- Freescale PowerQUICC II Pro microprocessor

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

Backup real-time clock (RTC)

Applicable standards
- ATC 6.24 standards
- NTCIP 1201 and 1202 standards

General Specifications

Dimensions:	Shelf mount: 5.25" H x 12.5" W x 7" D Rack mount: 5.25" H x 19" W x 7" 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:	Shelf mount: 7.1 lbs Rack mount: 8.1 lbs

Interfaces

Communication interfaces
- SDLC (2)
- Serial (asynchronous) (3)
- ENET 1: 100 Base-T Ethernet ports (2)
- ENET 2: 100 Base-T Ethernet ports (2) dedicated for local communications (i.e. laptop or similar)
- USB ports (2)
- Wifi enabled (optional)

Front panel interface
- Display: 16 lines x 40 characters
- Keyboard: 7 x 4 keypad (28 key)
- Datakey

Cabinet interfaces
- Caltrans cabinets - C1S, C11S (optional)
- ITS/ATC cabinets - SP3, SP5

Software

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

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