

# FLeX<sup>®</sup> ATC Controller

Cabinets

**Controllers**

Signals

Signs

Software

Specialty



## Overview

McCain's FLeX<sup>®</sup> 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 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<sup>®</sup> 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 wifi option, proper network, and software)

## Product Description

The McCain *FLeX* Controller is a revolutionary transportation controller designed in full compliance with the latest published and proposed ATC standards. By embodying the intent and flexibility of these industry standards, the *FLeX* 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 wifi 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.

## Standard Features

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### Operating system

- Linux
- 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

- Proposed ATC 6.24 standards
- NTCIP base standards (where applicable)

## Interfaces

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### 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

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Compatible with McCain's Omni eX<sup>®</sup> Intersection Control Software (see separate data sheet for details).

## General Specifications

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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

To learn more about  
McCain's Integrated Traffic  
Solutions, please contact  
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