

SWARCO McCain ATC FLeX[®] CONTROLLER



The McCain ATC FLeX Controller is part of SWARCO McCain, Inc.'s widely-adopted ATC eX Controller Series. Built in full compliance with the ATC 6.25 standard, the McCain ATC FLeX Controller is perfectly designed for any ATC, Caltrans, and NEMA cabinet. The rugged and powerful controller is available in shelf and rack mount versions, and it includes a host of features offering flexibility to agencies as their needs evolve.



KEY BENEFITS

- Displays multiple status screens at the same time
- Provides local remote access for technical support
- Compatible with ATC, CALTRANS and NEMA cabinets
- Creates extra space in traffic cabinet and allows for a small cabinet footprint
- Supports application software from multiple vendors

PRODUCT DESCRIPTION

The McCain ATC FLeX Controller is equipped with an oversized, 16-line screen that features auto-contrast, making the screen legible in all conditions. Split-screen options allow users to view the operational status of the intersection and make timing adjustments simultaneously.

The controller's front panel design makes it easy to connect, program, and update the unit in any environment. Quick data transfers, firmware upgrades, and log retrievals can be completed via USB port directly from the front panel. Optional integrated wireless connectivity allows users to access local software through a web interface¹.

The McCain ATC FLeX Controller has a robust Linux operating system that provides a flexible, open-architecture that can support software from multiple vendors. For applications including intersection control, ramp metering, arterial master, or reversible lane control, check out SWARCO McCain's Omni eX[®] Intersection Control Software².

McCAIN ATC FLeX CONTROLLER

STANDARD FEATURES

Operating System

- Linux

Microprocessors

- Freescale PowerQUICC II Pro microprocessor

Memory

- 1GB Main Memory
- 128 MB NAND Flash
- 16 MB NOR Flash
- 2 MB SRAM

ENGINE BOARD

Engine Board 4

- Linux Kernel: 5.10.105
- Processor: MPC8360 Rev 2.1 at 400 MHz
- Main Memory: 256 MB, 64 bits, 533.333 MHz
- Nor Flash Memory: 512 MB
- SRAM Memory: 2 MB
- Ethernet ports: 2 ports 10/100 Mb/s
- USB ports: 1 port USB 1.1

OPTIONS

- Custom D connectors
 - ATC FLeX NEMA TS 2 Type 2 configurations³
- International Input Voltage: 190 VAC to 253 VAC, 50 Hz (±3 Hz)

APPLICABLE STANDARDS

- NEMA TS 2-2003 v2.06
- ATC 5201 6.37
- NTCIP 1201, 1202 and applicable standards

INTERFACES

Communication Interfaces

- SDLC ports (2)
- Serial (ASYN) on front panel (3)
- ENET 1: 100 Base-T Ethernet switch, 1 uplink, and 1 additional port
- ENET 2: 100 Base-T Ethernet port dedicated for local communications
- Wi-Fi enabled (optional); uses ENET 2

Front Panel Interfaces

- Display: 16 lines x 40 characters
- Keyboard: 7 x 4 keypad (28 key)
- Datakey
- USB ports (2)
- SD Card Slot

Cabinet Interfaces

- ATC cabinets
- Caltrans cabinets
- ITS cabinets
- NEMA cabinets

SOFTWARE

Compatible with McCain Omni eX[®] Intersection Control Software² as well as third party software.

GENERAL SPECIFICATIONS

SPECIFICATIONS

Compatibility	ATC Cabinet	Caltrans	NEMA TS 2 Type 1	NEMA TS 2 TYPE 2
Dimensions ⁴ :	12.5"W x 5.25"H x 7"D	19"W x 5.25"H x 7"D	12.5"W x 7.75"H x 7"D	12.5"W x 8.75"H x 7"D
Form Factor:	Shelf mount configuration. EIA rack mount compatible with ATC Cabinet and Caltrans version only.			
Power:	89 VAC to 135 VAC, 60 Hz (±3 Hz)			
Environment:	Operating Temperature: -34°C to +74°C Humidity: 0 to 95% (non-condensing)			
Weight ⁵ :	7.1 lbs	8.1 lbs	7.45 lbs	8.25 lbs

VIEW

Front:



¹For users with Wi-Fi option, proper network, and software.

²See separate data sheet for details.

³For CALTRANS, SIEMENS EPAC, Traconex 390. More options available.

⁴Dimensions rounded to the nearest .01"

⁵Approximate