Siemens m60 Series

Advanced Traffic Controller for NEMA and ATC Cabinets

The Siemens m60 Linux Series controllers complies with industry's latest standards, with variants compatible for both ATC (Advanced Traffic Controller) and NEMA (National Electrical Manufacturers Association) standards.

Built on the proven m50 hardware architecture and combined with state-of-the-art SEPAC traffic controller software, the Linux-based m60 controllers are equipped with a number of functions to meet the everchanging needs of traffic agencies of all sizes.

The m60 series controllers provide multiple Ethernet ports, USB ports and other interfaces, highlighted in this datasheet, to facilitate backwards compatibility. The field devices also enable easy hosting of third-party applications, exceeding industry standards by providing usability features that include the new Siemens Multiview Display concept of real-time active status, context-sensitive HELP screens and user-programmable favorite buttons.

Siemens is dedicated to providing ulta-modern hardware, such as the m60, along with innovative software for your traffic needs!

New Products

- **The m60 ATC Cabinet-Ready Controller**

- **The m60 ATC LITE Cabinet-Ready Controller**

The latest additions to the m60 series are the m60 ATC Cabinet-Ready controller and the m60 ATC LITE Cabinet-Ready controller. These controller feature an ATC Cabinet compatible backplane which provides an innovative approach to those prefering to utilize an ATC shelf-mount cabinet. These new controllers will come with an "ATC Cabinet-Ready" product label to indicate that they come with an ATC Cabinet Compatible Backplane.

m60 ATC Cabinet-Ready Controller

usa.siemens.com/intelligenttraffic

General features

- Linux operating system
- Operates in both TS-2 Type 1 and 2 cabinets
- 5 RJ-45 Ethernet connectors
- 4 Port USB hubs
- Active TFT backlit LCD display
- Siemens Multiview Display technology designed for the everyday user in mind
- m50 USB upgrade package available
- Compatible with SEPAC traffic controller software
- m60 Backplane – for shelf mount cabinet compatibility

ATC variant

- Meets ATC 6.25 standard compliance
- Modular ATC communications hub
- m60 ATC upgrade package available

NEMA variant

- Exceeds NEMA TS-2 requirements
- m60 NEMA upgrade package available

Central Processor Unit (CPU)

- Open architecture platform with standard Linux operating system
- MPC 8309 333MHz processor
- 512MB FLASH, 256MB DRAM and 2MB SRAM
- TOD Clock with automatic daylight savings time adjustment
- Power supply will power the SRAM during power failures
  - Supports SEPAC controller software
  - SD memory card
  - Operating System: Linux 2.6.39
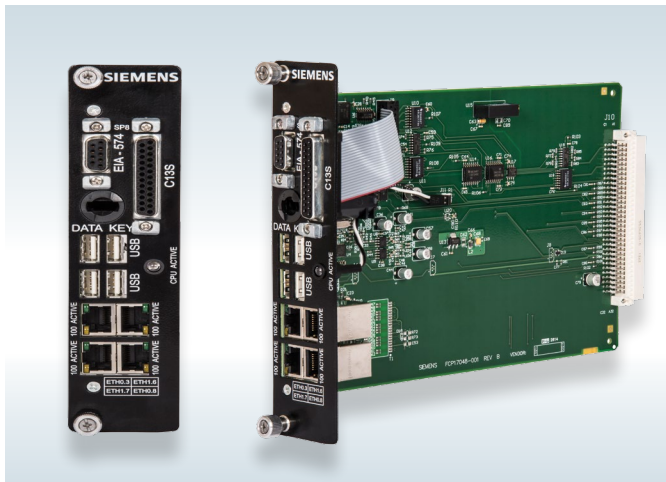
ATC Cabinet Module

Keyboard and Display

- Siemens Multiview Display with dual view screens
  - 5 1/8 inch active TFT display
  - Easily removable display and keypad
  - Easily identifiable, discrete HELP button
  - Real-time context sensitive HELP screens
  - User programmable function buttons F1 to F5
- Removable LED backlit LCD with 16 lines of 40 characters with adjustable contrast
- Emulation of terminal per Joint NEMA/AASHTO/ITE Standard
- Key quantity and function per Joint NEMA/AASHTO/ITE Standard

m60 Communications Module

- 10/100 Base-T Ethernet with built-in switch and 4 front panel RJ-45 connectors
  - ENET1 and ENET2 network switches
  - 5 10/100 TCP/IP ports
- 4 USB 2.0 Ports and a Datakey Port
- Dedicated GPS – SP8 Port (9pin EIA-574)
- Unique MAC address assigned by the Institute of Electrical and Electronic Engineers (IEEE)

Controller Housing

- 7 slots with card guides for standard size Versa Modules
- 2 slots with card guides for standard Joint NEMA/AASHTO. ITE ATC modems (optional) or ATC Communication Module or USB Plate
- Polycarbonate construction (excluding back panel), rear mounting tabs and aluminum power supply mounting plate for electrical grounding
- Carrying handle

m60 ATC Communications Module

2

Controllers	
m60 ATC Cabinet-Ready Controller (ATC Cabinet Compatible Backplane & ATC Cabinet Module included)	8134-4604-SSS
m60 ATC LITE Cabinet-Ready Controller (ATC Cabinet Compatible Backplane & Single USB Module Included)	8134-4600-SSS
m60 ATC LITE	8133-0000-SSS
m60 ATC	8133-0004-SSS
m60 NEMA Linux No Communications, Any Software	8132-0000-SSS
m60 NEMA Linux Any Communications, Any Software	8132-YYZZ-SSS

Upgrade Kits	
m50 OS9 to m60 NEMA Upgrade Kit	MBV17084-001
m50 OS9 to m60 NEMA w/ MultiView Display Upgrade Kit	MBV17046-003
m60 NEMA to m60 ATC Upgrade Kit*	MBV17086-001
m60 NEMA to m60 ATC Cabinet-Ready Upgrade Kit*	MBV17142-001
m60 ATC LITE to m60 ATC LITE Cabinet-Ready Upgrade Kit*	MBV17146-001
m60 ATC to m60 ATC Cabinet-Ready Upgrade Kit*	MBV17143-001

* = Factory upgradeable only

Modules and Spare Parts	
m60 MultiView Display (16 line display)	AAD17047-001
EPAC Power Supply Module	AAD17098-001
ATC Communications Module	AAD17048-001
ATC Cabinet Module	AAD14243-002
Field I/O Module	ACP16826-002
m60 Backplane	ACP17049-001
m60 ATC Cabinet Compatible Backplane (with DC-DC)	ACP17049-002
Single USB Module	MBV17147-001
Linux Engine Board Kit	MBV17046-001

Accessories	
Datakey and 2 PORT3 RS232 for OS9 Standard (P001)	AAD15288P001
Datakey for OS9 Standard (P002)	AAD15288P002
2 PORT3 RS232 for OS9 Standard (P003)	AAD15288P003
Datakey and 2 PORT3 RS232 for OS9 FSK 2-Wire (P004)	AAD15288P004
Datakey for OS9 FSK 2-Wire (P005)	AAD15288P005
2 PORT3 RS232 for OS9 FSK 2-Wire (P006)	AAD15288P006
Datakey and 2 PORT3 RS232 for OS9 MMF (P010)	AAD15288P010

The following Product Label will be included on all controllers which contain the ATC Cabinet Compatible Backplane. In order to connect any m60 series controller to an ATC Cabinet, an ATC Compatible Backplane and ATC Cabinet Module are needed.

Product Label placement on all controllers containing the ATC Cabinet Compatible Backplane

Product Label indicating presence of ATC Cabinet Compatible Backplane