

MNEC Communications

MN-NETSW1, MN-COM1S



Overview

MN-NETSW1

Four-port MNEC multimode fiber optic Ethernet switch

The MN-NETSW1 is an industrial grade, 10/100 Mbps auto-negotiating Ethernet switch used in Mass Notification/Emergency Communications (MNEC) and Fire Alarm applications to connect EST3-Sixty's FireWorks workstation to the MN-FVPN VoIP module and/or the MN-COM1S RS-232 interface. The MN-NETSW1 provides four RJ-45 ports for local connections and two full-duplex multimode fiber ports for remote connections.

The MN-NETSW1 has three LED indicators

- **Power:** On indicates the MN-NETSW1 has power.
- **Link:** On indicates Ethernet link has been established. Flashing indicates link is active.
- **HS:** Indicates data transferring at 100 Mbps.

MN-COM1S

MNEC Serial Communications/LAN interface

The MN-COM1S is a TCP/IP to RS-232 interface with one RJ-45 port and one RS-232 port. It is used in MNEC settings to connect a FireWorks workstation to an EST3 control panel.

Both the MN-NETSW1 and the MN-COM1S mount on an MN-BRKT1 or an MN-BRKT3 bracket. These install inside the EST3 control panel or Auxiliary Power Supply for a neat and self-contained MNEC solution.

Standard Features

MN-NETSW1 Four-port MNEC Ethernet Switch

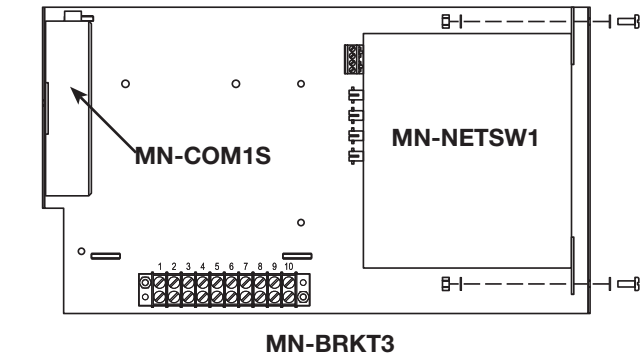
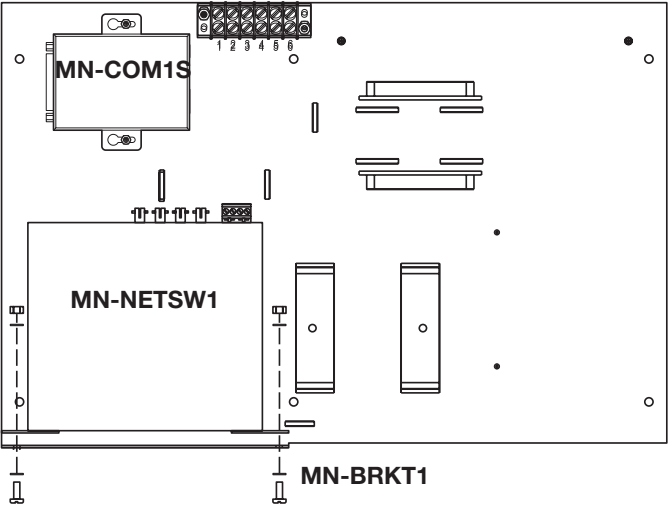
- Connect alarm panels to a remote FireWorks workstation over TCP/IP, LAN/WANs
- Supports MNEC and Fire Alarm applications
- Implement VoIP communications between EST3-Sixty nodes
- 10/100BASE-T Ethernet interface (RJ45)
- Supports MN-COM1S for Serial connection to 3-CPU3
- Supports MN-FVPN for VoIP communication between FireWorks workstations
- Four RJ-45 ports for local connections
- Two full-duplex multimode fiber ports for remote connections.
- Configuration and port director software included
- Flash ROM for easy software upgrade

MN-COM1S MNEC Serial Communications/LAN interface

- Connect a FireWorks workstation to an EST3 control panel.
- RS-232 Serial port for connection to 3-CPU3
- One RJ-45 port
- One RS-232 port
- Browser-based setup and configuration

Mounting

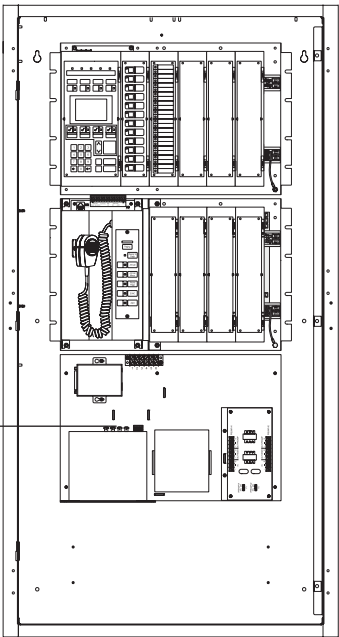
The MN-NETSW1 and the MN-COM1S mount on an MN-BRKT1 or an MN-BRKT3 bracket. These install inside the EST3 control panel or Auxiliary Power Supply for a neat and self-contained MNEC solution.



Component Layout

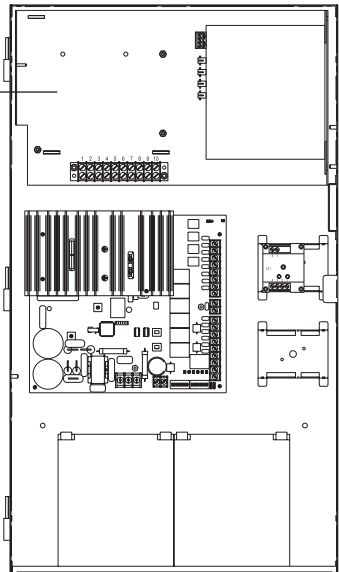
EST3 Control Panel

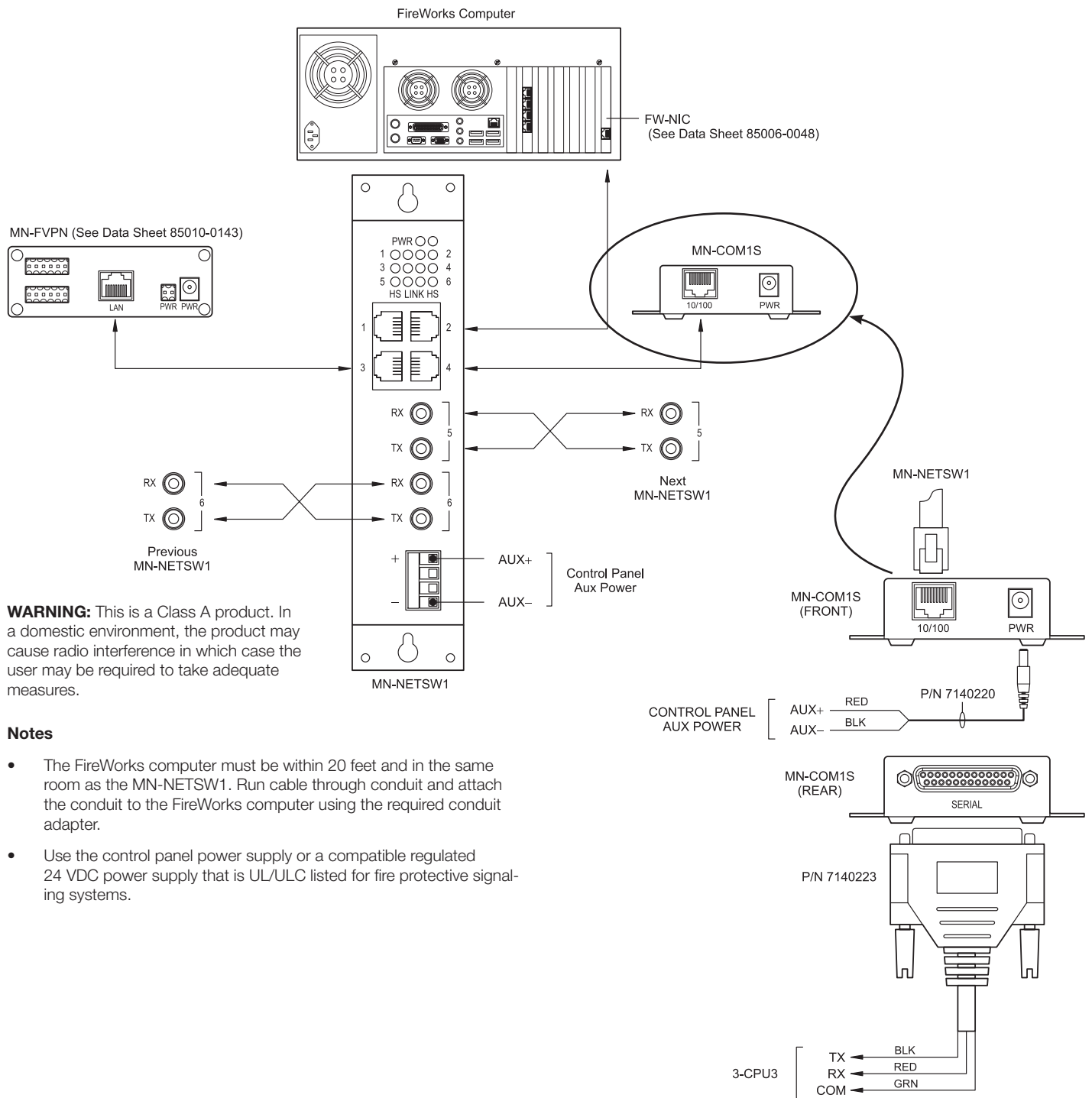
MN -BRKT1
Mounting Bracket



APS Auxiliary Power Supply

MN -BRKT3
Mounting Bracket





WARNING: This is a Class A product. In a domestic environment, the product may cause radio interference in which case the user may be required to take adequate measures.

Notes

- The FireWorks computer must be within 20 feet and in the same room as the MN-NETSW1. Run cable through conduit and attach the conduit to the FireWorks computer using the required conduit adapter.
- Use the control panel power supply or a compatible regulated 24 VDC power supply that is UL/ULC listed for fire protective signaling systems.



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Specifications, MN-COM1S

Voltage	18 to 28 VDC
Current	60 mA
Dimensions	(W x H x D) 2.5 x 0.9 x 3.5 in. (6.4 x 2.3 x 9.0 cm)
Serial interface	RS-232C
Network Interface	
Connector	RJ-45
Cable type	Category 5, min.
Other	10/100 Mbps, TCP/IP, autonegotiating
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

Specifications, MN-NETSW1

Voltage	18 to 28 VDC
Current	350 mA, max.
Dimensions (W x H x D)	1.75 x 7.54 x 5.54 in. (44 x 191 x 138.4 mm)
Fiber optic ports	
Quantity	2
Connector type	ST
Signaling /Data Rate	100Base-FX / 100 Mbps
Attenuation	13 db, max. at a 1310 wave length
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F/32°C
Segment Length	
Copper	3,28ft (100m)
Fiber Optic	~6,562 ft (2km) multi mode fiber
Fiber Optic Budget	10dB
Segment Media	
Copper	Category 6 UTP
Fiber Optic (1300 nm)	50/125 or 62/5/125 Multi Mode Fiber
Agency Listings	CE; FCC Part 15, Class A; EN50081-2; EN50082-2; UL-864
Power Requirements	24VDC at 21 mA, nominal10 -36VDC, 5 watts 8-24VAC, 47 - 63 Hz, 5 VA

Ordering Information

MN-COM1S	UL 864 Listed FireWorks Communications Ethernet Port, Command & Control. Comes with power and RS232 data cables
MN-NETSW1	Four-port multimode fiber optic Ethernet switch

Related Equipment

MN-BRKT1	MN-FVP mounting bracket for EST3 enclosures
MN-BRKT3	MN-FVP mounting bracket for APS-(6)(10)A power supplies
FW-NCCA4	Ethernet cable conduit connector assembly for UL4 computer
MN-FVPB1	Polymer mounting bracket for MN-FVPN
MN-FVPN	Fire VoIP encoder/decoder, includes power and audio cables
MN-PASM	MN-FVPN preamp signal supervisory booster module (1 required per MN-FVPN, along with SIGA-RM1 or SIGA-MRM1)
SIGA -RM1/MRM1	Riser Supervision Module
MN-ABPM	Audio Bridge (Panel mount 3-ATPINT)