SA-ETH Ethernet Interface Card Installation Sheet

Operation

The SA-ETH card provides a standard 10/100 Base-T Ethernet network connection for connecting to a local network. The card can be used for uploading and downloading panel configuration, history, and current status to a PC running the configuration utility or connect to a compatible central monitoring station receiver over a network.

Installation

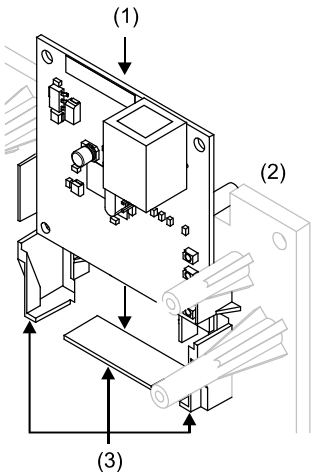
The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

Note: The Ethernet card must be configured through programming for proper operation.

To install the Ethernet card:

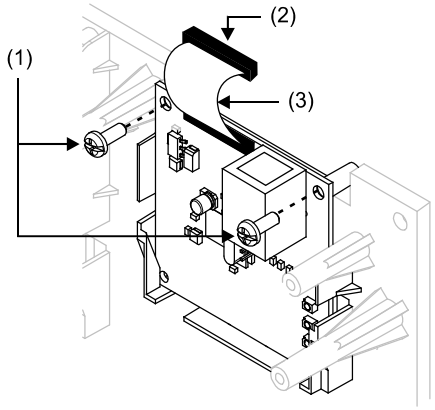
1. Power down the panel by first disconnecting the batteries, and then disconnecting the main AC power.
2. Locate the card slot on the plastic assembly behind the main circuit board and connector J1 on the main circuit board (at the top-right of the main board).
3. Slide the card into the slot on the plastic assembly as shown in the Figure 1.
4. Attach the card to the plastic assembly using two #6 plastite screws as show in Figure 2.
5. Connect the ribbon cable (P/N 7140189) from the card to connector J1 on the main circuit board. J1 is located on the top-right of the main circuit board.
6. Connect the network cable. See “Wiring.”
7. Power up the panel by first connecting the main AC power, and then connecting the batteries.

Figure 1: Installation



(1) SA-ETH card
(2) Top-right of main circuit board
(3) Card slot on plastic assembly

Figure 2: Installation and connections

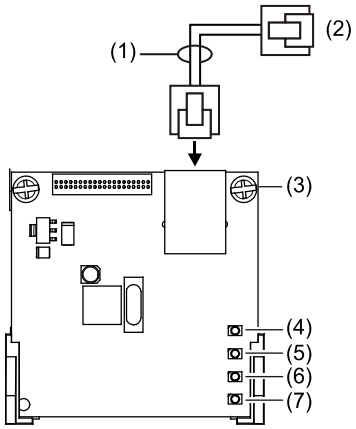


(1) #6 plastite screw
(2) To connector J1 on main circuit board
(3) Ribbon cable

Wiring

Note: You can use either an RJ-45 patch cable or an RJ-45 crossover cable.

Figure 3: SA-ETH wiring and LED locations



(1) Network cable
(2) To network connection (PC, router, switch, etc.)
(3) Ethernet card
(4) LED 4 (DS4): Collision
(5) LED 3 (DS3): Duplex
(6) LED 2 (DS2): Speed
(7) LED 1 (DS1): Link

SA-ETH LEDs

There are four LEDs on the card that indicate card and network status. See Figure 3.

SA-ETH compatibility

The SA-ETH is listed for use with the following DACRs.

Receiver	Models	Formats
Osborne-Hoffman	OH2000 and OH2000E (with a OH-TCP/IP-LC card installed)[1]	Contact ID

[1] If the line card firmware is V2.2 or later, use the default CMS network settings. If the line card firmware is V2.2 or earlier, the Timeout Seconds must be set to 60, the Hello Timer set to 75, and the Line Cut timer in the line card itself set to 175 seconds. If you are unsure of the firmware version in the receiver or there are communication faults between the panel and the receiver, then these settings are recommended.

Specifications

Ethernet	10/100 Base-T
Connection mode	Auto negotiation
Operating voltage	24 VDC
Operating current	Standby/Alarm: 34 mA Max.: 41 mA
Max. wire runs	200 feet (60 m), Cat 5 cable (panel to communication equipment)
Cat 5 cable connector	RJ-45
IP address (default)	192.168.001.003
Subnet mask (default)	255.255.255.0
Gateway (default)	000.000.000.000
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing at 90°F (32°C)

Contact information

For contact information, see www.edwardsfiresafety.com.