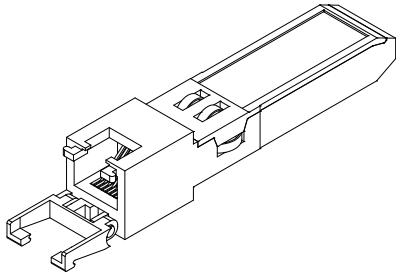![EDWARDS United Technologies]

4-NET-CAT 100 Mbps SFP Network Controller Installation Sheet

Description

The 4-NET-CAT 100 Mbps Small Form-factor Pluggable (SFP) network controller provides a 100Base-TX RJ-45 network connection.

Each 4-NET-CAT to 4-NET-CAT link is supervised for opens, shorts, ground faults, and continued communications. The 4-NET-CAT supports all command and control, live and recorded audio functions, and live firefighters telephone network functions.

The 4-NET-CAT plugs into one SFP slot in the 4-CPU, 4-ANNCPU, 4-CPUGRPH, or the 4-NET-AD modules.

Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

Cautions

- Equipment damage hazard. Installing or removing the SFP controller more often than necessary may shorten its useful life.

- Equipment damage hazard. This product is sensitive to electrostatic discharge (ESD). To avoid damage, follow accepted ESD handling procedures.
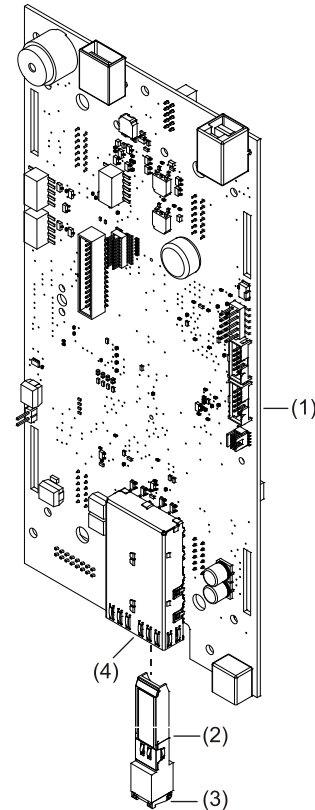
To install an SFP controller:

1. Correctly align the SFP controller with the SFP slot on the device. SFP slots may have a latch-up or latch-down orientation.

2. Close the bale clasp, and then insert the SFP controller into the slot until you feel the controller is seated into the connector. Firmly press the SFP controller into the slot until the controller latches (clicks).

3. Without releasing the bale clasp, gently pull the SFP controller to make sure that you cannot remove it.

4. Connect the cable to the SFP.

Note: SFP modules are hot swappable

To remove an SFP controller:

1. Connect the cable to the SFP.

2. Release the bale clasp.

3. Gently pull the SFP controller out of the SFP slot.

Figure 1: 4-NET-CAT installation

(1)	4-CPU module	(3)	Bale clasp
(2)	SFP controller	(4)	SFP connection on 4-CPU

Wiring

Network wiring is supervised and power-limited.

Supported wiring styles include:

- Class A
- Class B
- Class X
- Mesh networking topology

Pass-through from the CPU module eth1 and eth0 network connections is supported from the 4-NET-CAT to any other SFP type. Pass-through mode does not limit individual wire run lengths. Refer to the control unit Technical Reference Manual for details.

Specifications

Current [1]	
Standby/Alarm	27 mA at 24 VDC

Wiring	
Cable type	Cat 5e or better
Connector type	RJ-45
Distance	328 ft. (100 m) max. between two interfaces

Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

[1] Used for battery calculations

Regulatory information

FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Environmental class	UL/ULC: Indoor, dry

Contact information

For contact information, see www.edwardsfiresafety.com.