

Features

- ✧ Two SC single-mode optical Fiber interfaces.
- ✧ Suitable for ring network.

Description

- ✧ Refer to GST-IFP2E Fire Alarm Control Panel Installation Manual.
- ✧ P-9984EA card is optional for GST-IFP2E control panel, providing two SC single-mode optical Fiber interfaces.
- ✧ This card is NOT hot-swappable.
- ✧ Refer to the control panel manual for following settings.
 - 1) Set the default NONE to Fiber on the corresponding slot, keep the slot address consistent with the card address configured with pins XT1 and XT2.
 - 2) Set address of the control panels in the system.
- ✧ LEDs

P-9984EA card has internal RS485, FIBER1(OUT) and FIBER2(IN) ports. If HL4 LED state remains unchanged, it indicates FIBER port is fault, If HL5 LED state remains unchanged, it indicates RS485 port is fault, flashing HL4 and HL5 mean that P-9984EA works normally
- ✧ In Fiber-optical network made of those cards, FIBER1(OUT) connects with the FIBER2(IN) of the neighbor control panel. Maximum distance between two networked panels shall be within 20 km.
- ✧ One GST-IFP2E control panel can connect max 2 P-9984EA cards.

Connection & Wiring

The position for the fiber interface is on the fiber network card. Fig 1 shows the connection between the P-9984EA Fiber-Optical Network Card.

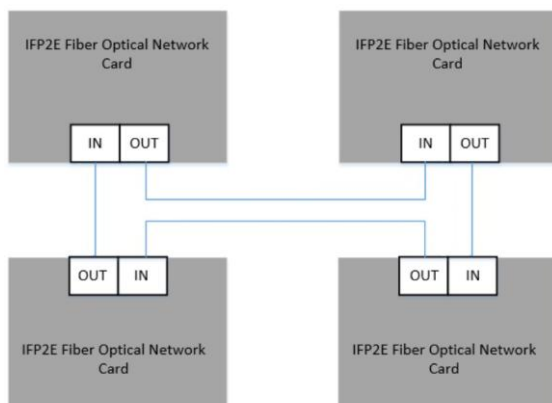


Fig. 1 Fiber Ring Network



Each network card has internally shorted terminals XS1 and XS2, all network cards shall be daisy-chained together using the supplied 4-pin cable via these terminals. At least one terminal from one of network cards must be wired to the 5V terminal(XT9) of the Power Interface Board for power supply and communication as shown in fig. 2.

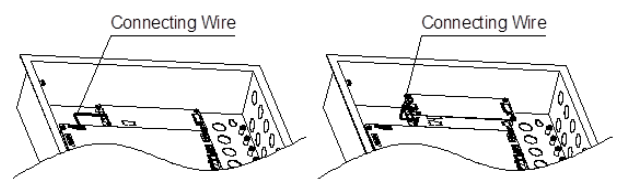


Fig. 2

Installation

Maximum 2 Network cards including P-9967EA CAN Card, P-9957E Modbus Card, P-9957E-RP Repeater card and P-9984EA Fiber Network Card may be used in the panel.

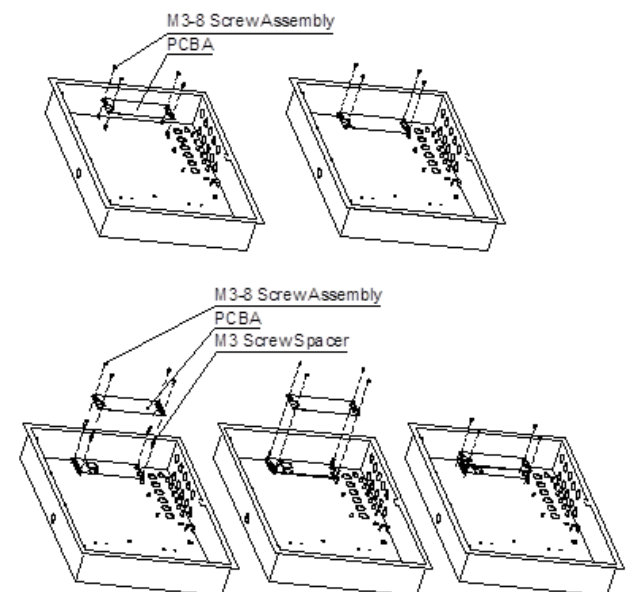


Fig. 3

Application

P-9984EA Fiber Card shall connect to Power Interface Board of the control panel either directly or via another network card, and as shown in Fig.3. Ring network is formed though 2 SC single-mode optical Fiber cable as shown in Fig. 1.

Specification

Comm. Interface	single-mode optical Fiber interface
Comm. Distance	The distance between two neighbor nodes is less than 20Km
Network Capacity	Maximum 250 GST series control panels for networking.
Transmission Medium	Fiber-optical
Baud Rate	100Mbps
Electrical Rating	5VDC, 200mA
Ambient Temperature	-5-50°C/23-122° F
Relative Humidity	95% RH (non-condensing)

Trouble shooting

Problems	Solutions
Messages cannot be transmitted.	<ol style="list-style-type: none">1. Check if the communication is normal according to status of LED HL4 and HL5.2. Check if the connection is correct according to Fig. 1.3. Check addresses of control panels in turn.

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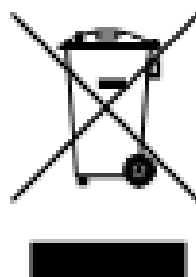
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