



TR-NIC Network Interface Card Product Installation Document

TRIGA Life Safety Systems, LLC
7600 Olde Eight Rd, Hudson, Ohio, 44236-1057
Tel: +1 330-577-5199, Email: info@trigaglobal.com

PN LS10172-003TR-E:B 6/2/2022 ECN: 00003637

1 Description

The TR-NIC Network Interface Card is used when networking a group of Fire Alarm Control Panels (FACPs). It is used to link the panels together.

1.1 Compatibility

The TR-NIC is compatible with the following Triga Series FACPs. For information on programming and addressing, refer to the Networking / Common Communication link Section of the *FACP Installation Manuals*.

- TR-2100/ECS
- TR-75

1.2 Specifications

- Standby Current: 21mA
- Alarm Current: 21mA
- Operating Voltage: 24VDC
- Operating Temperature: 32°F to 120°F (0°C to 49°C)

2 Installation

2.1 Layout and Mounting

The TR-NIC can be mounted within the FACP cabinet (except for the TR-75), in a TR-5815RMK accessory cabinet, or in a TR-NIC-KIT cabinet. Up to two TR-NIC cards can fit inside the TR-5815RMK. Refer to the *TR-5815RMK Installation Document*, P/N LS10303-001TR-E.

The TR-NIC-KIT is an accessory cabinet kit containing an TR-NIC card, a small cabinet with door, a 6-pin cable and mounting hardware. Up to two TR-NIC cards can fit inside the TR-NIC-KIT. For more information, refer to the *TR-NIC-KIT Installation Document* P/N LS10171-003TR-E.

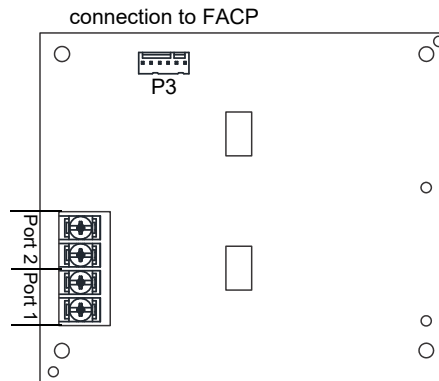


Figure 1 TR-NIC Board

2.2 Installation



NOTE: Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances.

Refer to the following steps to properly connect the TR-NIC to the FACP panel using the supplied 6-pin cable.

1. Place the TR-NIC on one of the SLC expander standoff sets.
2. Using the 6-pin cable, connect one end to the FACP pin connector labeled “Data Network” and the other end to the TR-NIC board’s P3 connector.

2.3 TR-NIC Remote Mounting

Follow Steps 1 and 2 above except the 6-pin cable that runs from the TR-NIC to the FACP must be run in conduit. Refer to the *TR-NIC-KIT* or *TR-5815RMK Installation Document*.

3 Fiber Loop Modules

The TR-NIC connects to other networked units using unshielded, twisted-pair wiring or fiber-optic cable.

The TR-FML and TR-FSL are plug-in fiber loop modules. The two types of fiber optic modules are used as one channel to transmit or receive communications with the TR-NIC, ARCNET communication circuit.

The following two types of fiber-optic modules are available:

- The TR-FML is a fiber module that allows the multi-mode fiber to network between nodes.
- The TR-FSL is a fiber module that allows the single-mode fiber to network between nodes.

For more information on the fiber modules, refer to the *TR-FML and TR-FSL Installation Document* P/N:LS10178-003TR-E.

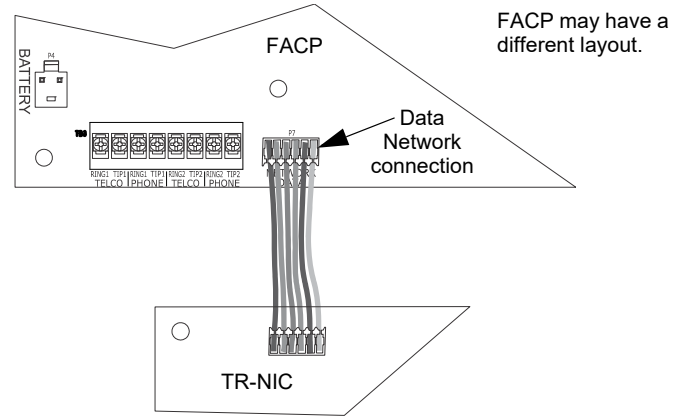


Figure 2 Panel to TR-NIC Connection

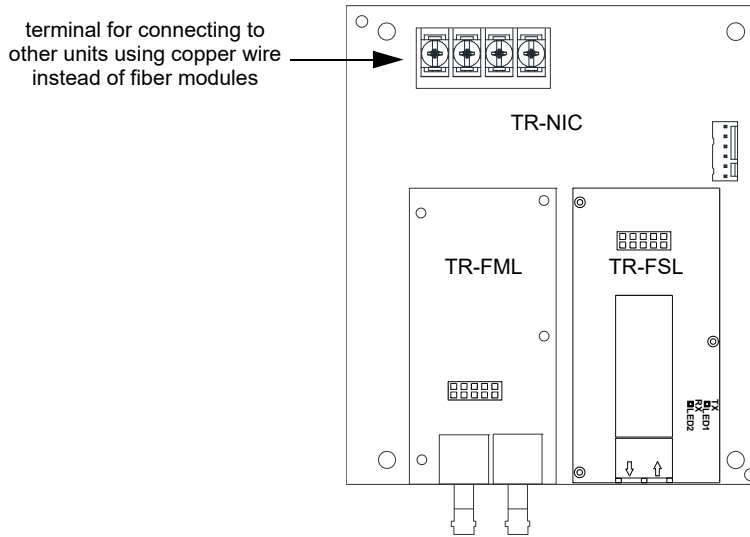


Figure 3 TR-NIC Fiber Loop Modules Mounted on TR-NIC