D9133TTL-TR   Token Ring Interface Module

Installation Instructions

1.0   Description

The D9133TTL-TR is an SDI bus device for use with the 9000/7000 Series Control/Communicators (D9412, D9112, D7412, D7212). The D9133TTL-TR is used for bi-directional communications over Token Ring networks which are typically used for event reporting and remote programming.
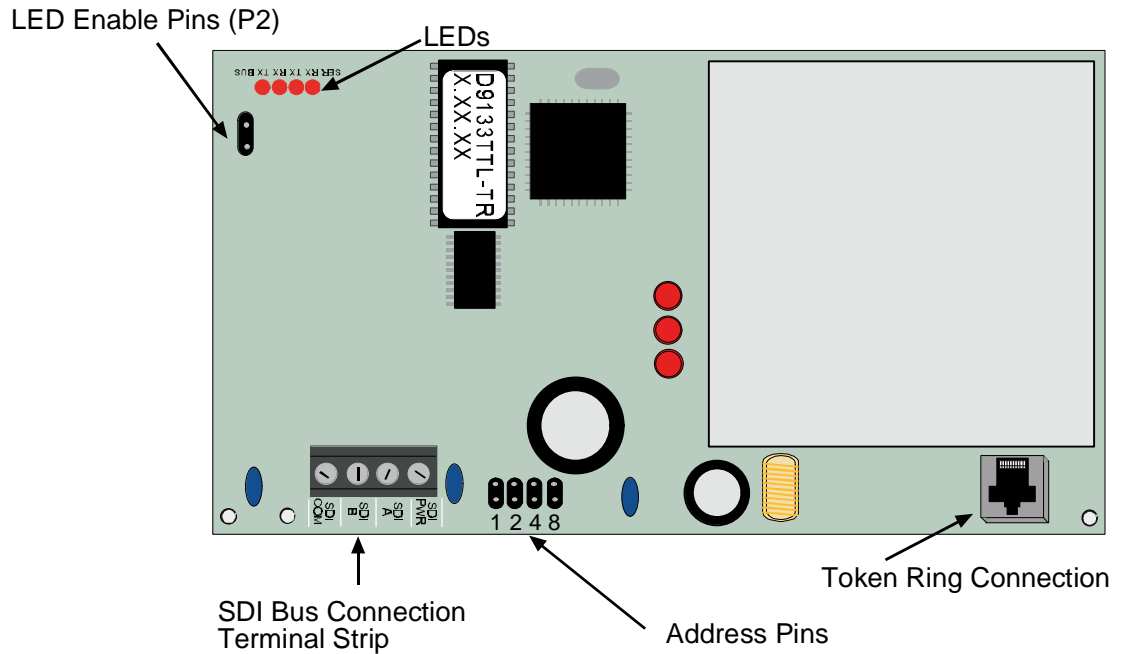

Figure 1: D9133TTL-TR Circuit Board Layout

2.0   Specifications

- **Dimensions:** 7.0 inches x 4.5 inches (17.8 cm x 11.4 cm)

- **Current Draw:** 500 mA

- **Compatibility:** D9412, D9112, D7412, D7212 Control/Communicators with firmware version 06.00 and higher

- **Connectors:**   Control Panel: SDI Bus Terminal Strip
                    LAN/WAN: 'RJ' Modular Jack (Token Ring)

3.0   Installation

1. Remove AC and battery power from the Control/Communicator.

2. Wire the D9133TTL-TR to the Control/Communicator as indicated in Figure 2 and in the table below.

Control/Communicator	D9133TTL-TR
SDI PWR (Terminal 32)	SDI PWR
SDI A (Terminal 31)	SDI A
SDI B (Terminal 30)	SDI B
SDI COM (Terminal 29)	SDI COM

NOTE: SDI device wiring is limited to 1,000 feet (305 meters).
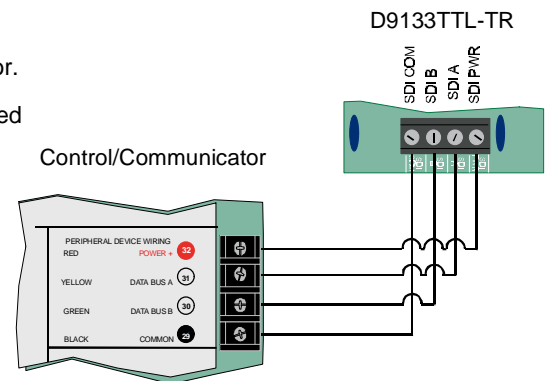

Figure 2: Wiring the D9133TTL-TR

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3. Connect a token ring cable to the Modular Jack labeled token ring.

4. Set up the D9133TTL-TR as described in Section 4.0.

5. Reconnect AC and battery power to the Control/Communicator and power up the system.

4.0 Setup

4.1 Programming the Address

The D9133TTL-TR address is set by placing and removing jumpers from the "Address Pins" (see Figure 1 for the location of Address Pins, see Figure 3 for placement of the Address Jumper). The following defines the current addresses that may be used:

Figure 3: Address Jumper Placement

• SDI Address 88 = Alternate Communication (Jumper 8 installed)

NOTE: The D9133TTL-TR address configuration is read only at D9133TTL-TR power-up. If the address configuration is changed while the D9133TTL-TR is powered, a power reset must be performed so that the D9133TTL-TR can re-configure its address.

4.2 LEDs

To enable the LEDs, place the jumper across the LED Enable Pins (P2). The function of the LEDs is described blow:

• BUS RX: Flashes when the panel talks to any SDI device. (Normally this LED continually flashes when the Reset Pin is up.)

• BUS TX: Flashes when the D9133TTL-TR sends data to the panel.

• SER RX: Flashes when data is received into the token ring port on the D9133TTL-TR.

• SER TX: Flashes when data is transmitted to the token ring port on the D9133TTL-TR.

4.3 Status LEDs

The D9133TTL-TR has three Token Ring status LEDs. These LEDs will flash until the D9133TTL-TR inserts itself into the Token Ring. Once the D9133TTL-TR is inserted the LEDs will remain steady. If the LEDs continue to flash, the D9133TTL-TR is having trouble connecting to the network.

Figure 4: Diagnostic LEDs and the LED Enable Pins

4.4 Panel Programming

Panel programming may be required depending on the application used for the D9133TTL-TR. For more information, consult the documentation f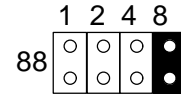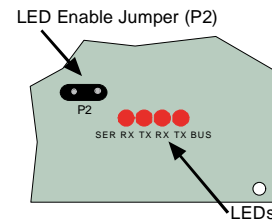or the specific application to be used.