tii network technologies

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Model SVN-SERIES Switchable Voice Network Interface Device
SVM-SERIES Switchable Voice Module
Patents Pending
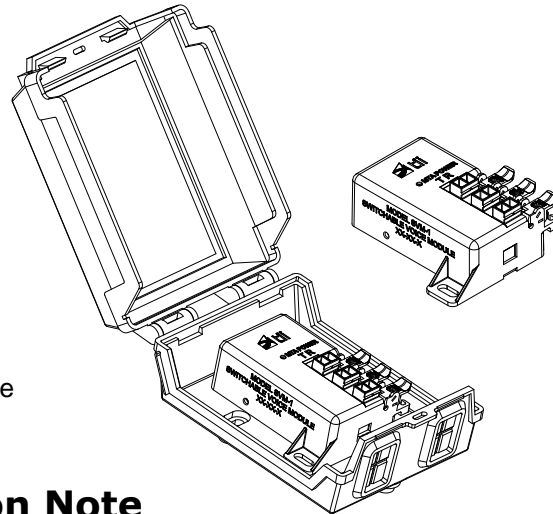
Installation Note

Description

1. This combined Installation Note covers the description and installation of the TII Series SVN and SVM. The SVN is enclosed in an indoor/outdoor housing, while the SVM is supplied as an individual module.

2. The SVN and SVM can be mounted indoors or outdoors using the standard hardware provided. If mounting outdoors the SVN and SVM should be mounted in a weatherproof housing.

3. The SVN and SVM have been designed to provide automatic switching of a customer's telephone provider from Telco to Digital Voice Service automatically after installation when the number is ported.

4. The SVN or SVM get its power from the Digital Voice Service line, and switches to Digital Voice Service after validating telephone ringing voltage presence on this line. The green LED will blink slowly when the SVM is receiving power from the Digital Voice Service Line.

5. The SVN or SVM can be reset by using the reset push button accessible on the side wall of the device. The SVN or SVM must be powered by the ATA / EMTA for the reset function to operate.

6. IDC rockers are used to terminate 26-22 AWG solid wire.

Installation

1. Locate a suitable flat, dry area to install the unit.

2. Prior to installing the SVN, decide on the (2) knockout locations that are to be used (See Figure 1). Using a flat bladed screwdriver knockout the (2) locations and use two #8 screws to mount the unit.
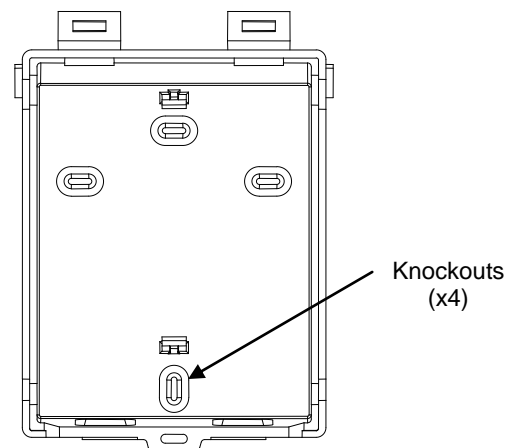
Knockouts (x4)

Figure 1

Wiring

1. Lift the blue rocker for the digital voice service wires (MTA) to the full up position. DO NOT strip wires. (See Figures 2 & 3)

2. Insert the Digital Voice Service wires from ATA/EMTA through the enclosure grommets shown in Figure 3 and into wire guides simultaneously until they bottom-out. While holding the wires in position, terminate them into the MTA (Blue) rocker by lowering it to the full DOWN position (See Figures 2 & 3). If the ATA/EMTA is supplying power to the SVM, the green MTA power LED provided on the line will start to blink.
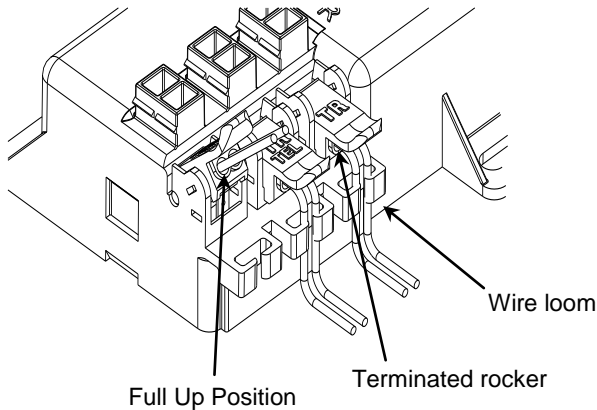

Wire loom

Full Up Position

Terminated rocker

Figure 2

3. Disconnect the customer premise wiring from the Telephone Network Interface Device (NID). Straighten the ends of the wires, cut kinked and stripped ends. Pass the customer telephone wire through the enclosure (Cust) grommet. Lift the Green/Red rocker to full up position. Insert wires into the Cust wire rocker holes. While assuring that wires are fully inserted, lower the rocker to fully seated position (See Figure 3).

Test Points

Customer Wiring
Telco Wires
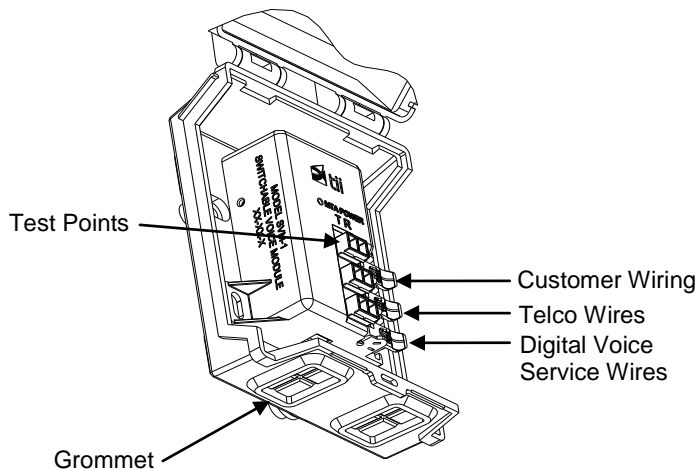Digital Voice Service Wires

Grommet

Figure 3

4. Connect the Telco Service using a wire pair from the Telephone NID to the rocker labeled TEL (orange). Follow the procedure described above for the wire pair termination (See Figures 2 & 3).

5. To keep the wire pairs organized, route them through the molded wire looms. (See Figure 2).

6. Dress the wires properly inside the housing and close the cover. A suitable tie wrap can be used for added security.

7. **IMPORTANT:** This unit **MUST** be reset during initial installation. For resetting the MTA Power, refer to the reset instructions below.

Reset

1. Confirm that the power is connected to the MTA (Blue) rocker of SVN / SVM.

2. **Gently** push the reset button once with a blunt object to ensure the service to the customer is from the Telco Service Provider (See Figure 4).
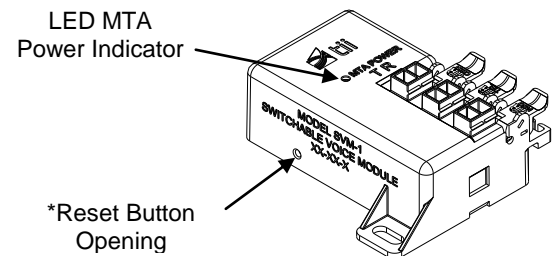

LED MTA Power Indicator

*Reset Button Opening

Figure 4

✓ **NOTE: THE RESET SWITCH IS DISABLED DURING RINGING VOLTAGE PRESENCE AND TEN SECONDS AFTER THE LAST RINGING VOLTAGE.**

⚠ **CAUTION:** TO AVOID PERMANENT DAMAGE TO RESET BUTTON, DO NOT USE EXCESSIVE FORCE OR A POINTED OBJECT TO ACTIVATE THE RESET BUTTON.