

# TSU IQ QUICK START GUIDE

## Installation and Configuration

1. Plug in AC power, press and hold the **Quick** key, and turn unit on. This sets the unit to the factory default settings.
2. If a problem is detected during Self Test, contact ADTRAN Technical Support.
3. Activate menu item selections either by pressing the corresponding number (if applicable) on the keypad or by scrolling to the selection using the arrow keys. The cursor will flash on the first character of the activated selection. Press **Enter** to select the activated menu item. See the Front Panel Keys section in the right column of this page for more guidelines on using the front panel interface.
4. Using a 4-wire telco cable, connect the TSU IQ's telco connector to the telco jack. The unit should establish synchronization with the T1 network. Verify synchronization by viewing the TSU Loop State (STATS >NETWORK PORT >TSU LOOP STATE). If this field displays a message other than D4 or ESF NORMAL, refer to the Troubleshooting section below.
5. Connect unit to a router using a V.35 cable.
6. The TSU IQ should be exchanging frame relay PVC signaling messages with the network. If the Signaling State (STATS >NETWORK PORT >SIGNAL STATE) displays DOWN after one minute, see the Troubleshooting section below.
7. Configure the PVC Options (CONFIG >NETWORK PORT >PVC CONFIG) and the Management Options (CONFIG >SYSTEM) as desired for your application.

## Troubleshooting

### Unit not in sync with T1:

1. Ensure that the timing source is correct. By default, the TSU IQ derives timing from the network (CONFIG >NETWORK PORT >PHYS LYN OPT >CLOCK SOURCE).
2. Ensure that the T1 Channel Rate is set to match the network connection (CONFIG >NETWORK PORT >PHYS LYN OPT >CHANNEL RATE).

### Network Signaling State is down:

The factory default setting for the signaling type is AUTO. Setting the unit to the expected PVC signaling format may correct the problem (CONFIG >NETWORK PORT >FR OPT >SIGNAL).

## Testing

To verify data integrity across the frame relay network, perform a PVC loopback test for each PVC (TEST >PVC LOOPBACK). This test is non-intrusive and can be performed on all PVCs or on an individual PVC.

## Front Panel Keys

**Enter:** Selects the active menu item.

**Arrows:** Scroll through and activate the menu items of the current menu. The flashing cursor indicates the active parameter.

**Cancel:** Stops current activity and returns to previous menu.

**Numeric Keypad:** Activates menu items and enters numeric information.

**Next, Prev, Add, and Delete:** For use when editing tables such as the PVC Options table. You must press and release the **Shift** key first to activate these keys.

**Quick:** Resets the unit to factory default settings. To reset, press and hold this key when turning the TSU IQ power on. When defaults are successfully loaded, the unit name displayed in the LCD is followed by an exclamation point (!).



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