

QUAD FXS

13 CLASS SERVICES...
13 CLASS SERVICES...

STATUS

FXS

TIMEZ

800

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TURN UP STEPS

- 1 Insert card into slots 1-6 on the TA 750. The unit will automatically strap DSOs in the T1 as noted below.

TIME SLOT ASSIGNMENT

Physical Slot	T1 Time Slot Assigned
1	1-4
2	5-8
3	9-12
4	13-16
5	17-20
6	21-24

- 2 Verify LED sequencing. LEDs will stop sequencing once unit is initialized.

Note: If the unit is inserted into a physical slot which has its direction allocated to the FV (DSO, LI or NCC) port, the LEDs will sequence continuously indicating a problem. The time slots must be first set up using the menu interface before the unit will become operational.

STATUS LEDs (GREEN)

- OFF On Hook
- FLASHING Ringing (DSO only)
- ON Off Hook (Busy)
- SEQUENCING All Four Time Slots Unavailable

- 3 If factory default settings to be used for the application, then installation is complete. If further provisioning is desired proceed to step 4.

FACTORY DEFAULT SETTINGS

The FXS and FXO factory default provisioning: FXS mode, loop start signaling and automatic loop provisioning. The automatic loop provisioning function will automatically set the line impedance and gain after the first off hook event.

The FXO factory default settings are FXO mode and loop start signaling.

If different settings are desired, the VT 100 terminal interface is used.

- 4 Connect VT 100 compatible terminal to BCU Inceptate ADMIN port
- 4a Connect DS-9 cable.
 - 4b Run terminal emulation program
 - 4c Port Settings are as follows: 9600 Baud, No parity, 8 data bits, 1 Stop bit, No flow control.
 - 4d If using Windows Hypertextual open by selecting Programs/Accessories/Hyperterminal

Note: To ensure proper display background, select VT 100 Terminal Emulation under Settings.

- 5 Proceed through menus to desired access module

- 5a select Access Module
- 5b select J-6 (data)
- 5c select J-7 (control)

Note: To traverse through the menus, select the desired entry and press Enter. To work backwards on the menu press ESC (escape key). To return to the top of the menu at any time, press the return key twice.

- 6 Change port provisioning for a particular application.

Note: Provisioning for a port can be copied to another port or to all similar ports.

- 7 Testing - to access the test menu for an access module select test item 4 after 3c

TESTING

Self Test

- Performed when the Quad FXS or FXO is inserted into an active channel to verify proper operation of critical circuits.

Initiated Tests

- Digital Loopback Test - loops back DSO data coming from the network for each individual channel.
- Network Dis-Hook / DH-Hook Test - tests signaling sent to the network by the unit.
- Customer Ring Test (RTS only) - activates the unit's ring relay in a 2-on / 4-off ring customer, providing ringing to the customer loop.
- 1000 Hz DRS Tone Generation Test - sends DRS signal on the receive path to the loop and transmit path towards Center.

Note: All tests except self test are initiated through the TA 750 BCU Admin Port, TA 400 BCU or TA 1000 BCU.

Note: The Quad FXS is for use in the TA 750 and the TA 400.

Note: The Quad FXO is for use in the TA 750, the TA 400, and the TA 1000.

Note: The 127540012 is completely interchangeable with the 127540011.

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- For a complete Quad FXS I&M Practice: 877-857-5807, Document # 484. Please have your fax number available.
- For a complete Quad FXO I&M Practice: 877-857-5807, Document # 485. Please have your fax number available.



CONNECTIONS

- All connections are made through the 50-pin amphibol connector on the back panel (TA 750A/850/1500).

ELECTRICAL CODE COMPLIANCE

The Quad FXS and Quad FXO are to be installed in restricted access locations and in equipment with a Type "B" or "C" installation code.

Code	Input	Output
IC	A	-
TC	-	X
PC	C	C

APPLICATIONS

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by ADTRAN could void the user's authority to operate this equipment.



Figure 1. Standard FXS/FXO application



Figure 2. Application using FXO in TR-48 mode

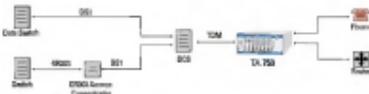


Figure 3. Application using FXS in GR30 Access Concentrator

MODES OF OPERATION

Note: Signaling states are provisioned through the RCU.

FXS

- FXS Loop Start (default)
- FXS Ground Start
- TR-08 Single Party
- TR-08 Universal Voice Grade
- DPD
- Trainers (R & M)

FXO

- FXO Loop Start (default)
- FXO Ground Start
- DPT

ATTENUATION LEVELS

0 dB to -9 dB

FXS

- Short loop default: -9 dB Transmit, -3 dB Receive
- Long loop default: -3 dB Transmit, -3 dB Receive

FXO

- Default 0 dB Transmit, 0 dB Receive

IMPEDANCE SETTINGS

FXS

- 600 Ω
- 500 Ω
- 600 Ω + 2.16 μF (short loop default)
- 600 Ω + 2.16 μF (long loop default)

FXO

- 600 Ω + 2.16 μF

WARRANTY

Warranty for Carrier Networks products manufactured by ADTRAN and supplied under Buyer's order for use in the U.S. is one (1) year. For a complete copy of ADTRAN's U.S. Carrier Networks Equipment Warranty: (877) 457-5867, Document 614.