Total Access 750/850/1500 OCU DP Access Module

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Total Access 750/850/1500
OCU DP
P/N: 1180005L1
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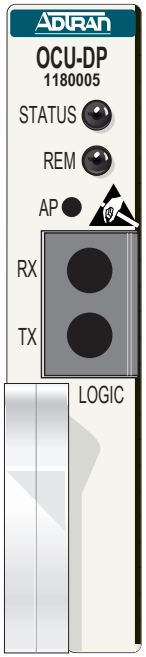

CAUTION!
SUBJECT TO ELECTROSTATIC DAMAGE OR DECREASE IN RELIABILITY.
HANDLING PRECAUTIONS REQUIRED.

DESCRIPTION

The ADTRAN® Total Access® 750/850/1500 Office Channel Unit Data Port (OCU DP) access module provides the interface between a DS0 time slot of the T-carrier data stream and the 4-wire metallic to the customer premises. The OCU DP may interoperate over the carrier system with another OCU DP, DS0 DP, DS0 cross-connect system, or switch, and may be located in an end office, hub office, intermediate office, or remote digital terminal system. The OCU DP features the following:

- NEAR and FAR logic level Bantam test access
- Non-intrusive monitoring of received data from NEAR or FAR direction
- Loop Quality Monitor and A/B signalling options
- Remotely provisionable Performance Monitoring via Digital System-6

INSTALLATION

After unpacking the Total Access 750/850/1500 OCU DP, inspect it for damage. If damage has occurred, file a claim with the carrier then contact ADTRAN Customer Service. Refer to the *Warranty* information on the reverse page.

Verify **SW2** and **SW4** are provisioned properly for your application. Refer to the table below for provisioning options.

Switch	Label	Function/Description
SW2-1	EC	Error Correction: ON - Error Correction enabled, *OFF - Error Correction disabled
SW2-2	ZCS	Zero Code Suppression: ON - Zero Code Suppression enabled *OFF - Zero Code Suppression disabled
SW2-3	LLB	Latching Loopback: *ON - responds to legacy latching loopback, OFF - disables Latching Loopback (ADTRANs protected loopback mode is activated at 64k only).
SW2-4	A/B	AB Signalling: *ON - determines signalling bits from A&B signalling leads on the backplane, OFF - derives signalling bits from incoming data of the DS0 time slot
SW2-5	Q/M	Quality Monitor
SW2-6		No function
SW4-1	SC	Secondary channel
SW4-2	64	64 kbps
SW4-3	56	56 kbps
SW4-4	19.2	19.2 kbps
SW4-5	9.6	9.6 kbps
SW4-6	4.8	4.8 kbps
SW4-7	2.4	2.4 kbps
SW4-8	SW56	Switched 56kbps

* Default setting

NOTE: Error Correction at rates of 56 and 64 kbps require two DS0 time slots for data and error-correcting parity bytes. If SW56 is selected, Error Correction must remain OFF.
If 64 kbps is selected, the secondary channel (SC) switch must not be selected.

The OCU DP inserts into any Access Module slot; slots 1 through 24 of the Total Access 1500 chassis or slots 1 through 6 of the Total Access 750/850 chassis. To install the OCU DP, perform the following steps:

1. If present, remove the Access Module Blank (P/N 1175099L1) from the appropriate access module slot of the Total Access 750/850/1500 chassis.
2. Pull the ejector latch, located on the lower left-hand side of the OCU DP front panel, from its closed position.
3. Hold the OCU DP by the front panel while supporting the bottom edge of the module with the ejector latch opened to engage the chassis edge.
4. Align the module edges to fit in the lower and upper guide grooves for the access module slot.
5. Slide the module into the access module slot. Simultaneous thumb pressure at the top (above the **STATUS** LED) and at the bottom (to the right of the ejector latch) of the module will ensure that the module is firmly positioned against the backplane of the chassis.
6. Secure the OCU DP in place by pushing in on the ejector latch.

The OCU DP becomes operational upon insertion into an active Total Access 750/850/1500 chassis and performs the power up self-tests. Once the power up self-test is complete, the front panel LEDs will reflect the true state of the hardware.

FRONT PANEL LEDS

STATUS	Green	Normal operating condition
	Red	No sealing current, no receive signal, or poor quality when Quality Monitor option is enabled
	Yellow	OCU or Channel Loopback is active
REM	Green	Indicates module has been remotely provisioned
	Green (flashing)	Indicates DS-6 control link established

FRONT PANEL SWITCH

AP Alternative provisioning switch. Changes provisioning source from manual to remote or remote to manual

CONNECTIONS

All connections are made through the 50-pin male amphenol connector on the backplane of the Total Access 750/850/1500. For OCU DP pair locator information see the tables on the reverse page.

Total Access 750/850/1500 OCU DP Access Module

PRICING AND AVAILABILITY 800.827.0807
TECH SUPPORT 800.726.8663
RETURN FOR REPAIR 256.963.8722
www.adtran.com
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OCU DP Pair Locator for Total Access 750/850/1500

TA 1500 Slot	T/R RX (P1)	T1/R1 TX (P2)	TA 1500 Slot	T/R RX (P1)	T1/R1 TX (P2)	TA 750/ 850 Slot	T/R RX	T1/R1 TX
1	26/1	26/1	13	38/13	38/13	1	26/1	27/2
2	27/2	27/2	14	39/14	39/14	2	30/5	31/6
3	28/3	28/3	15	40/15	40/15	3	34/9	35/10
4	29/4	29/4	16	41/16	41/16	4	38/13	39/14
5	30/5	30/5	17	42/17	42/17	5	42/17	43/18
6	31/6	31/6	18	43/18	43/18	6	46/21	47/22
7	32/7	32/7	19	44/19	44/19			
8	33/8	33/8	20	45/20	45/20			
9	34/9	34/9	21	46/21	46/21			
10	35/10	35/10	22	47/22	47/22			
11	36/11	36/11	23	48/23	48/23			
12	37/12	37/12	24	49/24	49/24			

PROVISIONING

The Total Access 750/850/1500 OCU DP supports two types of provisioning modes, local and remote. Local provisioning results in the module operating as defined by the on-board switches. Remote provisioning results in the module operating as defined by the Bank Controller Unit (BCU) or System Controller Unit (SCU) menu settings (on-board switches are ignored). The operational mode is indicated by the **REM** LED and can be changed by depressing the **AP** switch on the front panel.

Remote Provisioning

The craft interfaces on the BCU or SCU are used to change default options and obtain access module status through menu screens. To access the menu screens, connect a VT100 terminal or a computer running a terminal emulation program to the front panel craft interface ADMIN port using a standard male-to-female RS-232 DB-9 cable.

Windows HyperTerminal can be used as a VT100 terminal emulation program. Open HyperTerminal by selecting Programs/Accessories/HyperTerminal. Refer to the Help section of HyperTerminal for additional information.

To traverse through the menus, select the desired entry and press ENTER. To work backward in the menu press the ESC (escape) key. The figure on the right illustrates the OCU DP menu tree.

TESTING

The OCU DP is equipped with logic level bantam test access jacks that permit testing in both directions using a portable test set. Latching and alternating OCU and CSU loopback sequences are supported. Alternating loopbacks do not operate when the 64 kbps data rate is selected. Choose NEAR to test toward the 4-wire customer loop direction; choose FAR to test toward the T-carrier.

In the FAR direction, an OCU loopback sequence will loop the unit directly across the carrier system. In the NEAR direction, an OCU loopback sequence will loop the unit directly connected to the portable test set.

NOTE: If 64 kbps is selected, unit will only respond to latching loopback sequences. Alternating sequences are not valid at this rate.

COMPLIANCE

The OCU DP is NRTL listed to the applicable UL standards. The OCU DP is to be installed in a restricted access location and in a Type "B" or "E" enclosure only.

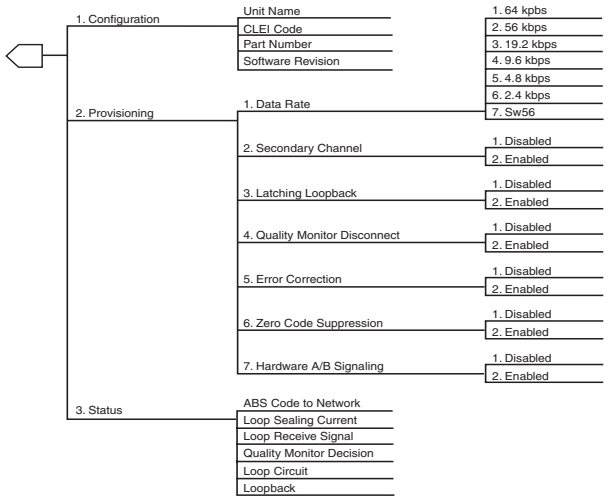
The Total Access 750/850/1500 Chassis frame ground terminal must be connected to an earth ground to ensure the front panel of the OCU DP is properly grounded via the backplane connector.

Code	Input	Output
Power Code (PC)	C	C
Telecommunication Code (TC)	–	X
Installation Code (IC)	A	–

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.
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.



Warranty: ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found online at www.adtran.com/warranty.