



TOTAL ACCESS OPTI-3 CONTROLLER MODULE 1550 NM

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6154818A 001

PROVISIONING OPTIONS

Upon initial installation, the DCM uses factory default settings. To provision the DCM, connect a terminal emulator via the RS-232 (DB-9) connector on the front panel. The terminal must be VT100 compatible and set for 9600 bps, 8 data bits, no parity and 1 stop bit. The following table lists the provisioning settings and their default values. The settings are retained in a non-volatile memory device in case of power loss to the DCM.

Options	Settings/Default in Bold
Working Service State	In Service , Out Of Service - All Interfaces, Out Of Service - Unassigned
Provision Service State	In Service , Out Of Service - Maintenance, Out Of Service - Unassigned
OCM Provisioning	User Defined
OCM1 Name	User Defined
OCM1 Interface	Enable , Disable
OCM1 Line Build Out	Short , Long
OCM2 Name	User Defined
OCM2 Interface	Enable , Disable
OCM2 Line Build Out	Short , Long
OCM3 Name	User Defined
OCM3 Interface	Enable , Disable
OCM3 Line Build Out	Short , Long
Signal Path (SPI) Threshold	1e10 , 1e10 ² , 1e10 ³
Signal Degradation (SD) Threshold	1e10 , 1e10 ² , 1e10 ³ , 1e10 ⁴ , 1e10 ⁵
Provisionable Alarms	See the Provisionable Alarms section to the right of this table.
Clock Source (TX)	1. Recover OC-3 from both Fiber A & Fiber B 2. Recover OC-3 from Fiber A 3. Recover OC-3 from Fiber B 4. Free Run 5. External DS1 SF or DS3 from both inputs 6. External DS1 SF or DS3 from Primary input 7. External DS1 SF or DS3 from Secondary input 8. External DS1 SF w/Sync from both inputs 9. External DS1 SF w/Sync from Primary input 10. External DS1 SF w/Sync from Secondary input
OC3 TX SYNC MSG	Derive from Source, Don't Use
OCM Provisioning	
OCM Service State	Network, User (Option is available when Mount Location is Subterminal)
OCM IP Address	User Defined
CMU Code	User Defined - up to 20 alphanumeric characters
NMAP Area Address	User Defined - Option is available when Mount Location is Subterminal
LAPD Window Size	1, 1, 121 (Option is available when Mount Location is Subterminal)
LAPD TXB Inlets	256 , 2560 (Option is available when Mount Location is Subterminal)
LAPD TXB Inlets	4096 , 16000, 128000 (Option is available when Mount Location is Subterminal)
LAPD RXB Inlets	2, 3, 8 (Option is available when Mount Location is Subterminal)
LAPD RXB Inlets	512 , 1340 (Option is available when Mount Location is Subterminal)
Network Configuration	
Serial Rate	9600 , 12000, 24000, 96000, 115200
Serial Parity	8 , 24, 3999
Serial Width	43 , 85, 1000
Ethernet Interface	Enable , Disable
IP Address	User Defined - Format = a.x.x.x where a = 0-255
Subnet Mask	User Defined - Format = a.x.x.x where a = 0-255
Default Gateway	User Defined - Format = a.x.x.x where a = 0-255
SNMP Trap Mode	User Defined - Format = a.x.x.x (0-6)
SNMP System Name	User Defined
SNMP System Location	User Defined
SNMP Read Community	Public, Private

SNMP Write Community	Public, Private
Time and Date	User Defined
Mount Location	Control Office, Remote, Subterminal
Account Provisioning	Account 1-14 (Username, Password, Privileged)
Remote Alarms Reporting	Enabled , Disabled (Option is available only in Control Office mode)
TL-1 Server	Enabled , Disabled
TL-1 Port	26 , 2061, 2020 (Note: TL-1 Port and Menu Port cannot be the same value)
TL-1 Echo	On, Off
Menu Server	Enabled , Disabled
Menu Port	23 , 2303 (Note: TL-1 Port and Menu Port cannot be the same value)
Remote Factory Defaults	Restore Management Defaults

LINKED PROVISIONING

The online alarm provisioning settings are written to the standby unit. Linked Provisioning is always enabled.

DCC MODES

1. Back-to-Back Mode

Back-to-back mode is used when OCMs are connected together in a point-to-point setup. It consists of one OCM configured for Control Office and the other for Remote. This mode of operation supports accessing the remote OCM manually, either by the DCM end port or the CO Ethernet LAN (via Telnet). This remote management is carried over the DCC section on the fibers between the OCMs. This mode of operation supports remote management of other ADTRAN equipment subterminal from the DCM at the remote site. TTTP and SNTP are supported in this mode, both on a local Ethernet access and to the remote OCM. NMA access is supported with TL-1 via Telnet, where NMA can access both devices via the CO TLU section. CO access to GNE, 1/8th devices assigned.

2. Subterminal Mode

The DCM functions as a full SONET terminal multiplexer in a new or existing SONET network. It consists of one OCM configured for Subterminal mode. This mode allows each OCM to directly connect to SONET backbone equipment. Management access is also provided over the OCM to other network elements on the SONET ring. The DCM interfaces must be properly configured, LAPD parameters and NMAP Area Address, for the SONET network for remote OCM management. The DCM can be also used as a GNE device to allow TL-1 access to the existing SONET network.

PROVISIONABLE ALARMS

1. Regular Alarms - 40 Regular Alarms List, 37 available choices
2. Threshold Alarms - Threshold Alarms List, 22 available choices
3. Breakdown Alarms
4. Restore Alarm Defaults

NOTE: Refer to the Installation and Maintenance Practices (IPV 615481803-3-2) for details and options.

SOFTWARE UPGRADE

Software downloads for the local OCM are provided using TTTP XModem, and XModem protocols in any DCC mode. Software downloads to the remote OCM through the CO/OCM is only supported in a Back-to-Back mode. TTTP downloads are provided through the Ethernet interface (provided through the rear of the chassis) or over the DCC channel (TTTP over DCC channel only provided when configured for Back-to-Back mode). XModem and XModem downloads are provided through the craft port and Kinet connections.

COMPLIANCE

WARNING: The *Interconnect* interfaces and *DCC* interfaces **MUST NOT** be electrically connected to interfaces which connect to the Outside Plant or its wiring. These interfaces are also used for use as intra building interfaces only. The addition of *Privacy Protection* is not sufficient protection in order to connect these interfaces externally to OSP wiring.

This product intended for use in Restricted Access Areas only, and is intended to be installed in a Type "B" or "C" enclosure. This product complies with UL 4090A.

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.

Code	Input	Output
Power Code (PC)	F	C

Interconnection Code (IC)	A	C
Installation Code (IC)	A	C