



Shelf Assembly Specifications



Note

The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This appendix contains hardware and software specifications for the ONS 15327.

Bandwidth

- Total bandwidth: 240 Gbps
- Data plane bandwidth: 160 Gbps
- SONET plane bandwidth: 80 Gbps

Slot Assignments

- Total card slots: 8
- Traffic card slots (E10/100-4, G-1000-2, OC-3, OC-12, and OC-48): Slots 1 through 4
- XTC (Cross Connect, Timing and Control): Slots 5, 6
- MIC (Mechanical Interface Card): Slots 7, 8

Cards

- XTC-14
- XTC-28-3
- MIC A
- MIC B
- E10/100-4

- G1000-2
- OC-3 IR 4 1310
- OC-12 IR 1310
- OC-12 LR 1550
- OC-48 IR 1310
- OC-48 LR-1550



Warning

The OC-3, OC-12, OC-48, and E1000-2 cards are Class 1 laser products (IEC 60825-1 2001-01/Class I laser product (21CFR 1040.10 and 1040.11)).

Configurations

- Two-fiber path protection
- Path protected mesh network (PPMN)
- Two-fiber BLSR
- Add-drop multiplexer
- Point-to-point terminal mode

Cisco Transport Controller

- 10 Base-T
- XTC access: RJ-45 connector

External LAN Interface

- 10 Base-T Ethernet

TL1 Craft Interface

- Speed: 9600 bps
- XTC: RS-232 DB-9 type connector

Modem Interface

- Hardware flow control
- XTC: RS-232 DB-9 type connector

Alarm Interface

- Visual: Critical, Major, Minor, Remote
- Audible: Critical, Major, Minor, Remote
- Alarm contacts: 0.045mm, -48 V, 50 mA

Nonvolatile Memory

- 96 MB, FLASH memory

BITS Interface

- 2 DS-1 BITS inputs
- 2 derived DS-1 outputs

System Timing

- Stratum 3 per Telcordia GR-253-CORE
- Free running accuracy: ± 4.6 ppm
- Holdover stability: 3.7×10^{-7} /day, including temperature (< 255 slips in first 24 hours)
- Reference: External BITS, line, internal

Power Specifications

- Input power: -48 VDC
- Power consumption: 260 W (maximum draw w/cards)
- Power requirements: -42 to -56 VDC
- Power terminals: Removable screw-locking (#12-14 AWG)

Environmental Specifications

- Operating Temperature: 0 to +55 degrees Celsius; -40 to +65 degrees Celsius with industrial temperature rated cards
- Operating Humidity: 5 - 95%, non-condensing

Dimensions

- Height: 5.1 inches (13. cm)

■ Dimensions

- Width: 19 or 23 inches (41.8 or 50.6 cm) with mounting ears attached
- Depth: 11 inches (28 cm)
- Weight: 15 lb. empty (with fan tray assembly); (27 lb. maximum)