

Telmar 1680 OGX Optical Gateway Cross-Connect

The 1680 OGX Optical Gateway Cross-Connect addresses the needs of a variety of market segments.



Telmar's 1680 OGX Optical Gateway Cross-Connect provides the features and functionality required by today's network operators to meet the demands of the modern network. This high-density, broadband optical cross-connect offers high speeds, increased capacity and maximum flexibility in a single, reliable platform.

By effectively grooming and filling optical signals, the 1680 OGX reduces the number of required network elements and lowers overall transport costs while ensuring network growth can meet current and future capacity demands by offering in-service scalability from 256 to 4,096 STS-1 equivalents.

Depending on customer requirements, the versatile 1680 OGX addresses the needs of a number of different market segments. Network service providers with an installed base of traditional BB-DCS can easily increase the capacity of their broadband

infrastructure while improving their density and drastically reducing overall footprint.

Network service providers who are looking to reduce their operational costs can consolidate the functionality of colocated equipment (ADM, DS-X, traditional BB-DCS) with a single, high-density, scalable broadband optical cross-connect designed to provide a clear migration path to advanced broadband data service delivery.

In addition, the 1680 OGX allows service providers to combine the protection of SONET with the efficiency of an optical cross-connect in a single system.

Telmar's 1680 OGX Optical Gateway Cross-Connect enable carriers and service providers to meet the demands of today's bandwidth revolution on land, under sea and around the globe.

The 1680 OGX, originally engineered and manufactured by Alcatel, was acquired by Telmar Network Technology in 2005.

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 **TELMAR**
NETWORK TECHNOLOGY

Telmar 1680 OGX

Optical Gateway Cross-Connect

Key Features

- Meets today's transport infrastructure needs
 - > Increases network efficiency by grooming and filling optical signals
 - > Redundant, robust switching, interface and control planes
 - > Sophisticated diagnostics accelerate installation testing and service provisioning times
 - > Replaces back-to-back add/drop multiplexers (ADM's)
 - > Bridges DS3 asynchronous signals to the SONET backbone to support legacy networks
 - > Multiplexes SDH signals from STM-16 to VC-3
 - > Provides localized and remote test access
 - > Software user partitioning
 - > Remote in-service software upgrade
 - > Remote database backup and restore
 - > Architected to support gateway network element functionality
 - > Provides the link from the access to optical core network for customers
- An international optical gateway
 - > Serves as an international optical gateway between SONET and SDH
 - > Bridges DS3 into SONET and SDH signals down to VC-3 for efficient optical backbone networks
- Flexible, scalable and a high-density architecture
 - > Scales from 155.2 Mb/s to 2.488 Gb/s
 - > Inter-rack optics provides flexible floor planning and configuration options
 - > Future support of remote nodes (180 km) from host NE
- Ensure optimum performance and ease of use
 - > Near and far-end SONET performance monitoring
 - > Automatic in-service signals
 - > Embedded DS3 performance monitoring
 - > Facility and equipment protection schemes, flexible rolling, fast facility protection and alternate image storage
 - > Network management interfaces utilize EMS, GUI craft interface and TL1

- Network services
 - > DS3, OC-3, OC-12, OC-48 private line services
 - > Optimal transport of ATM and IP mixed with private lines, OC-3c and OC-12c

Technical Specifications

General

- Communication Ports: RS-232, RS-449, 802.3 LAN
- Protocols supported: ASCII, X.25, TL1, TCP/IP
- LAN Port rates: 10/100 Mb/s
- Interoperability tested
- Three-year hardware warranty

Power Requirements

- Input power: -48 VDC
- FCC Part 15 Subpart B Compliant

Interface Specifications

- SONET: DS3, STS-1, OC-3c, OC-12c, OC-48c, STS-48c
- SDH: STM-1e, STM-1o, STM-4, STM-16 with VC-3, VC4-4c and VC4-16c grooming

Environmental

- Operating temperatures: 0°C to 50°C
- Humidity: 5% to 95%

Physical Dimensions

- Shelf width: 23 in. (9 cm)
- Bay and spacing — H x W x D: 84 in. x 26 in. x 12 in. (HDS is 15 in. deep)
- STS-1 capacity per I/O Bay: 256-384 STS-1 signals
- NEBS 3 (TR-NWT-000063): Compliant
- Remote interrack optics: 500 m
- Electrical I/O rack: 256 DS3s or STS-1s or 40 STM-1e
- Optical I/O rack: 80/1+1 OC-3s, 20/1+1 OC-12s or 8/1+1 OC-48s
- Matrix rack: 1536 equivalent DS3/STS-1 cross-connects per shelf

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