

C-DWDM 3200

32 Channel DWDM SYSTEM



SCALING THE BACKBONE NETWORK

DWDM TECHNOLOGY

Dense Wavelength Division Multiplexing (DWDM) is a revolutionary technology, with point-to-point DWDM systems representing the first phase in the evolution of Optical Transport Networking. DWDM is the most cost-effective way to expand capacity than some other alternatives such as adding fibre or replacing current capacity systems. Laying new fibre is expensive, particularly for long routes, and its installation can take too long to satisfy customers. TDM technology is no longer able to keep pace with the emerging ultra-broadband data backbone demands.

Point-to-point links upto 640 km with ADD-DROP capability in the long-haul/very-long haul backbone networks for

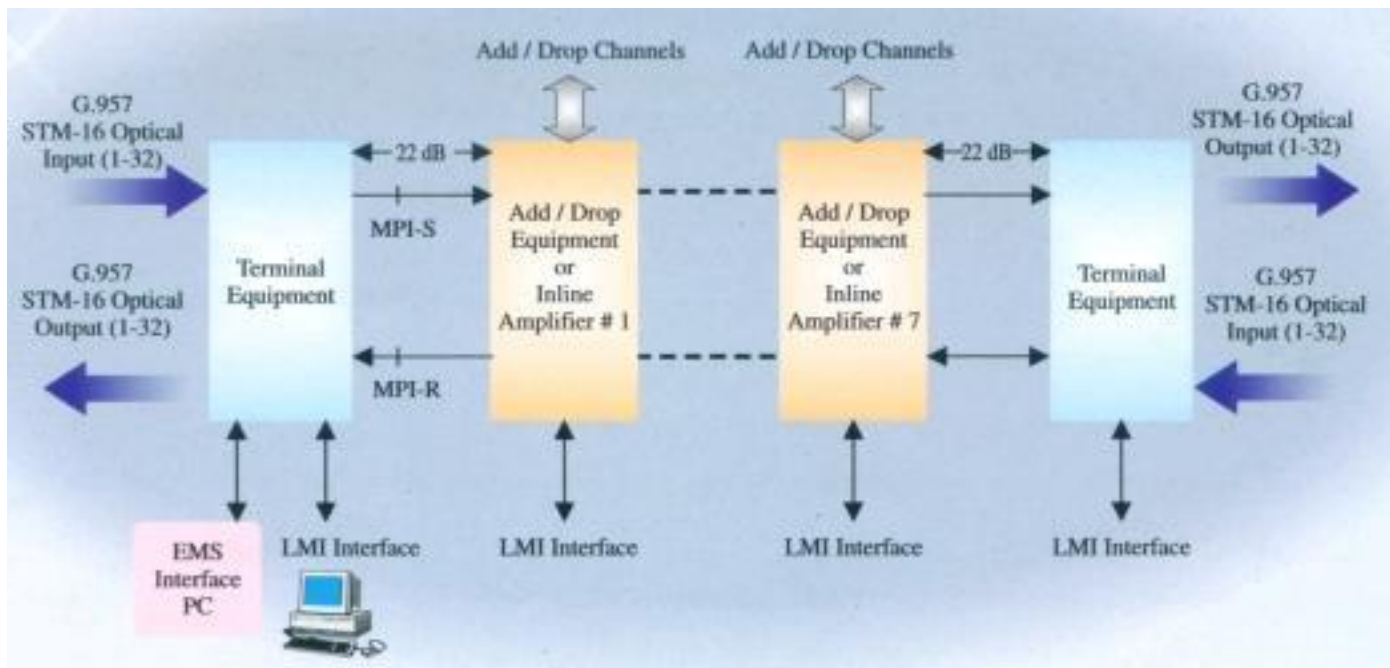
- ✎ Alleviating fibre exhaustion problems
- ✎ Wavelength leasing
- ✎ Metropolitan Area Networks

PRODUCT FEATURES

- ✎ 32 channel with 100 Ghz spacing
- ✎ Support for long haul (22 dB Span attenuation) and ultra-long haul (28 dB Span attenuation) point-to-point applications.
- ✎ Integrated optical multiplexing and pre emphasis
- ✎ In-line/In-service monitoring of individual optical channels (Wavelengths)
- ✎ Monitoring and alarm generation for B1 errors
- ✎ Add/Drop channels up to a maximum of four channels in both directions
- ✎ Omni orderwire
- ✎ Client Side Interface: STM 1/4/16, Gigabit Ethernet
- ✎ 10 Mbps Ethernet Interface for EMS
- ✎ Out of Band Forward Error Correction
- ✎ Elaborate alarm reporting
- ✎ Topologies supported: Point-to-Point and Linear
- ✎ Easy upgradation from In-Line Amplifier to Optical Add-Drop Multiplexer
- ✎ A user-friendly Local Management Interface (LMI) for Operation, Administration and Maintenance
- ✎ Simple Network Management Protocol (SNMP) based Element Management System

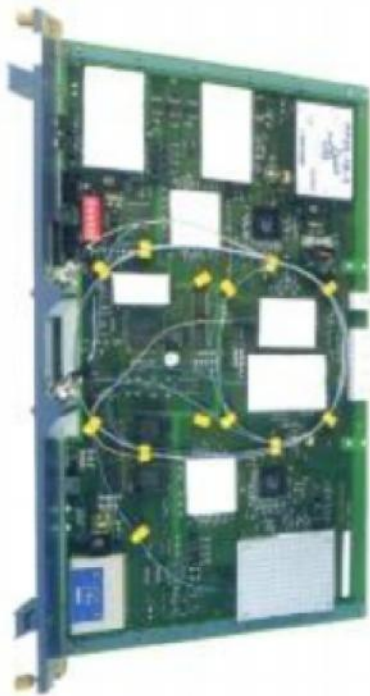
- ✎ CORBA compliant North Bound Interface
- ✎ Remote maintenance and supervision via optical supervisory channel
- ✎ Standard 19" construction practice: 32 channels in two racks of 2750mm height
- ✎ Common engineering practices for all TE, ILA and OADM (ETSI standard)

TYPICAL APPLICATION CONFIGURATION



PRODUCT SPECIFICATIONS

1. Number of Optical Channels	32
2. Channel Spacing	100Ghz
3. Wavelength	As Per ITU-T G 694.1
4. Path Attenuation / Number of Spans	22 dB, 28 dB / 8,5
5. Total Optical Output Power (Max.)	+17/+18 dBm
6. Maximum Number of Wavelengths for ADD / DROP at OADM	4
7. Optical Supervisory Channel Wavelength	1510+/-10nm
8. Supervisory Channel bit-rate	2.048 Mbps
9. Interface with SDH Terminals	As per ITU-T G.957
10. EMS/LCT Interface	10 Base T/RS 232
11. Power Supply Input Voltage Range	-40 VDC to - 60 VDC
12. DWDM Rack Size	2750 mm



Transponder Card

ELEMENT MANAGEMENT SYSTEM

C DWDM 3200 has SNMP based Element Management System (EMS). EMS installs, monitors, controls and configures the DWDM link through an EMS Manager. EMS supports CORBA for the North Bound Interface. The Manager is connected to the system through a 10 Base T Ethernet Interface. It can be physically connected to any Network Element in the DWDM link.

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