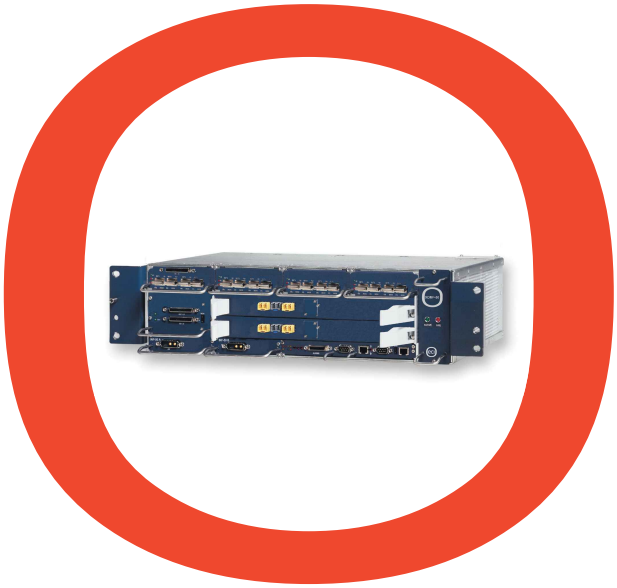
ECI TELECOM

Optical Networks Division

XDM®-50
The Do-It-All MSPP for Up-and-Coming Networks



- **Springboard solution** for metro access and cellular network hubs
- **Versatile and compatible –** supports the full range of SDH, PDH, and Ethernet interfaces
- **Rugged and robust –** suitable for harsh environment installations
- **Revenue-generating** opportunities with migration to new data services
- **Huge savings –** low initial investment, pay-as-you-grow solution that adapts to market demands

Light but powerful, the XDM-50 provides carrier-class quality and capabilities for emerging networks

PRODUCT NOTE

For moderate bandwidth requirements, **XDM-50** is the kick-start building block, with surprisingly **low initial investment**

SMALL YET POWERFUL

Today's cellular and metro access networks require cost-effective hubs for the consolidation of traffic arriving from base-station cells (2G, 2.5G, 3G), SDH optical rings, chains, point-to-point connections, and radio links. Operators are also expected to provide broadband services to business customers over the same infrastructure. The miniature XDM-50 shelf delivers on these demands, for a lot less than expected.

BONAFIDE MSPP

As new technologies and equipment evolve and abound, service providers must respond to growing traffic and service needs while reducing power consumption, size, and overall cost. Multiservice Provisioning Platforms (MSPPs) are thus emerging as the most feasible and cost-effective for metro-access networks.

ECI Telecom's XDM-50 carries voice and data services over SDH and CWDM. It is the dependable solution for the focused yet highly cost-sensitive metro access and cellular markets. Because MSPPs play a critical role in the journey from legacy to next-generation networks, the XDM-50 allows carriers to leverage their SDH installed base while offering a mix of carrier-class data services to their customers.

XDM CAPABILITIES AT A FRACTION OF THE COST

Fully compatible with its XDM-100 counterparts, the XDM-50 MSPP delivers a cost-effective and affordable mix of Ethernet, SDH and PDH services, resulting in new revenue-generating opportunities. The system offers tangible benefits:

- Carrier-class data service as well as traditional SDH voice centric services.
- Non-traffic affecting, gradual capacity expansion based on service provisioning needs. An element can be upgraded from an ADM-1 to an ADM-4, to a multi-ADM, and to a converged SDH/CWDM element.
- Multi-ADM and cross-connect functionality makes it ideal for deployment in flexible network topologies, including ring, mesh or star.
- Common functions redundancy and I/O interfaces protection
- Suitable for indoor and outdoor enclosures and for harsh environments thanks to its extended operating temperature range of up to 55 °C.

Up-to-DATA Service Offering

Data applications have been the driving force in the telecommunications industry in recent years, providing a new approach to data service provisioning and connectivity. This has brought about exceptional growth in the demand for larger bandwidth at lower costs.

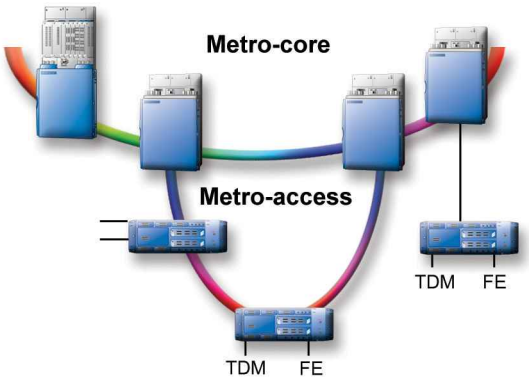
The XDM-50 is the choice transmission solution for emerging Ethernet-based applications. Equipped with the Ethernet Interface and Switching Module (EISM), the platform takes advantage of existing network infrastructures and provides genuine data-centric services, including:

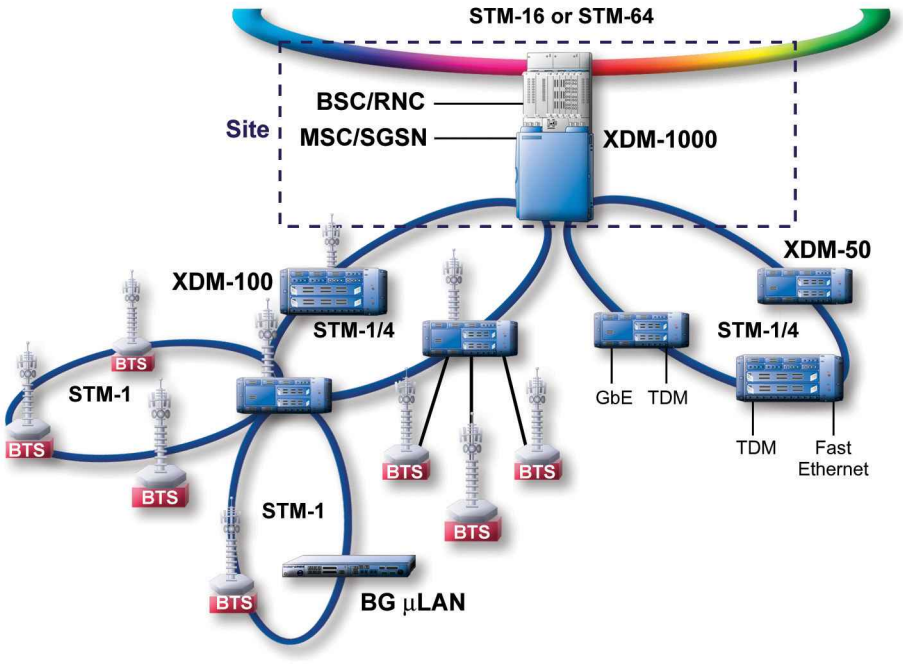
- Ethernet Virtual Private Lines (VPL)
- Flexible bandwidth connectivity based on GFP mapping
- QoS and SLA assurances
- Statistical multiplexing for handling bursty traffic and supporting dynamic bandwidth utilization
- Point-to-point, point-to-multipoint, and multipoint-to-multipoint service

Take the Metro

Up-and-coming metro-access operators report increasing demand by residential and business customers for higher bandwidth to support voice, data, and video services.

The compact XDM-50 offers scalable STM-1/4 aggregation of access traffic in multirings and point-to-point topologies. It adds/drops PDH, SDH, Gigabit Ethernet (GbE), and Fast Ethernet (FE) services at local Points of Presence (POPs). It also provides a service layer, which terminates WAN links and consolidates Ethernet traffic arriving from the local access. Traffic can then be transported to local GbE interfaces or routed to the metro-core network.





An Easy Cell

Cellular networks are instrumental in any global communications infrastructure. The XDM-50 is optimized for cellular hub applications in terms of price, size, and functionality. When located at hub sites, high availability is desirable, and the element can be fully redundant. It collects traffic arriving from the BTS/Node B and backhauls it to the higher network hierarchies and toward the central switching site (MSC, BSC/RNC). Traffic is aggregated to higher levels via TM-1 and ADM-1 multiplexers. This feature has a great impact on radio access networks and/or as a miniature cross-connect in leased line topologies and scenarios.

Moreover, the XDM-50:

- Provides closure of multiple STM-1 rings (BTS/Node B collector rings), chains, and spurs
- Closes higher bitrate rings towards BSC/RNC levels (STM-4 rings)
- Supports 21 to 84 E1s with I/O protection

TECHNICAL SPECIFICATIONS

Interfaces, Bitrates and Topologies	
SDH tributary interfaces	STM-1, STM-4
PDH tributaries	E1, E3, DS-3
Ethernet interfaces	10BaseT/100BaseT/100BaseFX/ 1000BaseSX/1000BaseLX
Topologies	Ring, chain, mesh
System Capacities	
SDH	22 x STM-1 10 x STM-4
PDH	149 x E1, 12 x E3, 12 x DS-3

Other Specifications	
Power input	-40 V dc to -75 V dc
Max. power dissipation	300 W
Operating temperature range	-5 °C to +55 °CF
Operating RH range	5% to 95%
Environmental standards	ETS 300 019-2-1 Class 1.2 ETS 300 019-2-2 Class 2.3 ETS 300 019-2-3 Class 3.1E
Safety	EN 60950, EN 41003 IEC 6825, IEC 364 ALS according to G.958
Management	End-to-end management of all layers and services
Physical dimensions	129 (203 with TPU) (H) x 430 (W) x 231 (D) mm

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