A BREAK FROM TRADITIONAL DWDM PLATFORMS...

TELCO WDM PLATFORM
Parallel WDM and SDH networks interconnected via optional expensive transponders

Traditional
• Complex & expensive
• Large vertical chassis systems
• Optimized for telecom market
• Complex Configurations and Planning

Transceiver Requirements
• Expensive CWDM/DWDM transceivers
• Separate transceivers for each WDM wavelength
• Manage Wavelength Use
• Use of cheaper long-haul third-party transceivers which risks warranty issues with OEMs

Additional Charge based on
• Transponders
• Media Converters
• Types of Services
• Data Protocols
• Bandwidth

Solutions
• Enterprise Centric
• Inflexible Proprietary WDM

OTS-100
A new generation of all-in-one Optical Transport Systems, the OTS-100 is the future of cost-effective 100G WDM networking. It has much of the same functionality as the OTS-10 system but can also support various 10G client services including 10GBase-LR4, 10GBase-E24, and 10GBase-SR10. The system is a simple turnkey solution for 80km box-to-box transmission. Due to its compact size, it can be stacked for single or dual fiber connections for bandwidth expansion up to 40G transmission across 160km (with EDFA). OTS-100’s size, capabilities, and cost make it the future of long distance, high bandwidth networking.

Next Generation
• Simple & cost effective
• Compact and stackable 1U system
• Optimized for both telecom & Datacom
• Truly Turnkey – plug and play solution

No Special Transceivers!
• Expensive OEM Transceivers not required
• Can use any existing transceivers
• No wavelengths to manage
• Use inexpensive short-haul OEM transceivers without warranty issues

Included in OptoSpan OTS
• Transponders
• Media Conversion
• Multi Service Transport
• All Data Protocols
• 1-100G

Enhanced Solutions
• Data Center and Enterprise Centric
• Flexible WDM based on EDFA, TEC, and DCM

OTS-10
Pioneering a new generation of multi-service Optical Transport Systems (OTS), the OTS-10 is designed for carriers and service providers who desire a cost-effective long distance, high bandwidth, reliable network. It is a unique platform that integrates WDM and SDH multiplexing with onboard transponders, which removes the requirement of expensive OEM transceivers for long distance links. This design provides seamless transport of 10G/40G ethernet or OC48, OC192 SONET services.

The 1 RU OTS-10 system is the most compact OTS available in the industry which is capable of WAN links up to 160km (250km with EDFA). An automatic hardware failover option is included, which switches from main fiber to backup fiber when main fiber is disabled. Such functionality and capability are today reserved for highly complex and expensive systems. OTS-10 changes that today!

UTC-100
An innovative new generation of Optical Transport Systems, the UTC-100 is the future of cost-effective 10G WDM networking. It has much of the same functionality as the OTS-10 system but can also support various 10G client services including 10GBase-LR4, 10GBase-E24, and 10GBase-SR10. The system is a simple turnkey solution for 80km box-to-box transmission. Due to its compact size, it can be stacked for single or dual fiber connections for bandwidth expansion up to 40G transmission across 160km (with EDFA). UTC-100’s size, capabilities, and cost make it the future of long distance, high bandwidth networking.
**THE POWER OF ADVANCED WDM TECHNOLOGY**

**OTS 10/100 SERIES FEATURES**
1. Repeaterless 1G, 10G, 40G or 100G transmission up to 250km!
2. CWDM or DWDM platforms in a compact 1U chassis
3. On-board transponders for connection to any existing transceivers
4. Integrated WDM and SDH multiplexing
5. Stackable multi-chassis for capacity expansion
6. Embedded 1+1 optical link protection
7. Optional advanced DCM, EDFA and OLP with low insertion loss and low latency
8. Clock Data Recovery 3R OEO on all channels
9. OTN uplinks supporting FEC (Forward Error Correction)
10. Integrated OSC (Optical Surveillance Channel)
11. Media Converter for SAN/FC links
12. Multi Rate/Service: Any Rate or Service on any port
13. Redundant hot pluggable power supply

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**OTS-10**

**10G 160km PTP link with EDFA**
- 1G / 10G / 40G Ethernet, SDH/SONET, Fiber Channel
- EDFA & DCM Implementation

**10G 250km 2 nodes PTP transmission**
- EDFA & DCM Implementation

**10G 1+1 Optical Line Protection**
- Automatic switching from main fiber to a backup fiber when the main fiber is disabled

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**OTS-100**

**40G/100G 80km PTP Link**
- Single or Dual fiber transmission without amplification

**40G/100G 160km PTP Link**
- Requires EDFA and DCM cards

**400G transmission – 160km**
- Stack up to 4 OTS-100 for 160km 400G link using Dual fiber

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