

T-4900

Multi-Service 10G C/DWDM Regional Transport Device



The T-4900 is an ultra compact 10G transmission system offering a simple 10G distance extension and xWDM solution.

Features and Benefits

Highly flexible Metro C/DWDM platform for transport of data, storage, voice, and video applications over dark fiber and C/DWDM networks.

Performs bi-directional 3R ensuring error-free operation over distance.

Supports up to 4 channels in a single 1U unit and up to 8 CWDM or 32 DWDM channels when combined together.

Supports 10G Eth LAN/WAN, STM-64/OC-192, OTU-2, 10G FC in any mix.

Cost-effective, compact 1U platform with low power consumption.

1+1 channel and equipment protection ideal for CLE (Customer Located Equipment).

Remote management with dedicated optical supervisory channels.

Pluggable XFP interface for both client and WDM channels, allowing maximum flexibility as well as ease of maintenance and operation.

Pay-as-you-grow architecture.

Unique native Gigabit Ethernet and SDH/SONET performance monitoring.

The T-4900 series is designed primarily to address the growing needs for high data capacity applications such as 10G Ethernet connectivity for IPTV, Triple play and NGN services.

Existing distance barriers are removed using WDM XFPs and the in-built optical amplifiers at a new market defining price point.

The T-4900 capabilities and competitive cost make it the ideal solution for evolving 10G Metro and Regional Ethernet networks and data-center connectivity.

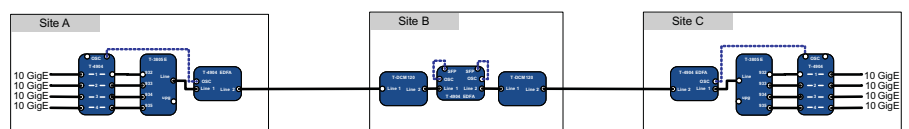
The T-4900 supports up to 4 high speed 10G services, 2 optical amplifiers (EDFA's), and optical switch for both transponder and regenerator modes. This compact solution results in a simple approach to upgrade existing infrastructure to carry 10G services.

The T-4900 seamlessly integrates with the T-4408 thus enabling mixture of low and high bit-rate services configured with the same web-based management tool.

Optical transceivers, both on the service side and on the WDM-uplink side, are pluggable and fully replaceable allowing pay-as-you-grow budget planning and simplified maintenance.

The T-4900 is highly suitable for applications such as:

- 10G Regional and Metro Networking
- Effective infrastructure of triple play, DSLAM and CMTS backhaul
- Enabling upgrade of existing CWDM and DWDM networks to 10G



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Technical Specifications

System

Topology	Point-to-Point, OADM and Ring
Transport Network	Metro WDM / dark fiber
Approvals	CE Class B, FCC, RoHS-6
Software upgrade Protection	Traffic hitless - dual image Facility and Equipment

DWDM Link

Wavelength	ITU Channels 15-60
OSC	1510 nm
Optical Reach	40, 80, 120, 160 and 200 km
Optical Power Output	0 to +2 dBm
Sensitivity	-24, -26 dBm (APD) -14 dBm (PIN)
Optical Monitoring	Tx & Rx power

Service interface

Data-rates	9.94 Gbps up to 10.8 Gbps
Optical Interface	850nm / 1310nm / CWDM / DWDM
Optical Transparent Services with 3R	10G Eth LAN/WAN, OC-192 /STM-64, 10G FC, OTU-2 in any mix

Optical Amplifier

Applications	In-line, Booster
Output Power	+14, +17, +20 dBm
Gain	10 dB to 20 dB
Control	APC and AGC
Eye Safety	Automatic laser power reduction

Network Management

Management Ports	2x10/100Base-T RJ-45, RS-232 DB-9 2x100Base-FX SFP
Protocols	SNMP, FTP, HTTP Web server
DCN	LAN/WAN/VPN
Management OAM	Web server application (GUI) Loop Backs Event Log Alarms 10G Eth LAN/WAN, OC-192/STM-64, 10G FC PM
Management Channel	Optical Supervisory Channel (OSC)
Visual Indicators	LED status indicators for client ports, line interfaces, power, shelf

Power Supply

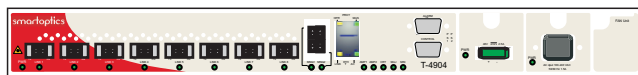
Characyeristics	120/240 VAC, -48 VDC, <65 Watts
Redundancy	Single or dual feeding, pluggable

Environment

Operating Temp.	-5° C to +55° C
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Physical Dimensions

Size	45 mm (H) x 440 mm (W) x 313 mm (D)
Weight	5.5 kg



Ordering information

T-4902-PM	2 channel, 1U, 10Gbps Multirate XFP System, GUI, SNMP, 2x OSC, APS, PM
T-4904-PM	4 channel, 1U, 10Gbps Multirate XFP System, GUI, SNMP, 2x OSC, APS, PM
T-4904-PM-Exx	4 channel, 1U, 10Gbps Multirate XFP System, GUI, SNMP, 2x OSC, APS, PM, +xx dBm EDFA
T-4904-PM-ExxExx	4 channel, 1U, 10Gbps Multirate XFP System, GUI, SNMP, 2x OSC, APS, PM, 2x +xx dBm EDFA
T-EDFA-ExxExx	In-line Amplifier, GUI, SNMP, 2x OSC, 2x EDFA +xx dBm
<i>xx = 14, 17 or 20</i>	

T-PSU2-AC	AC power supply (120/240 VAC)
T-PSU2-DC	AC power supply (-48 VDC)