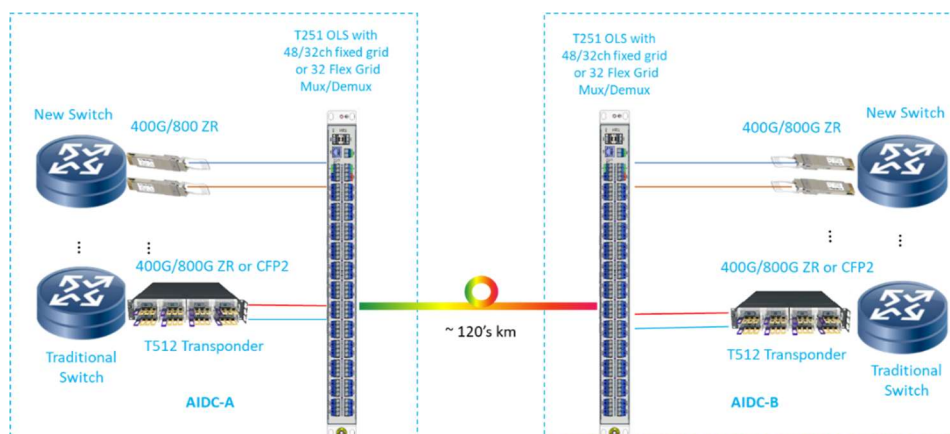


AX-801 Optical Line System for IPoDWDM

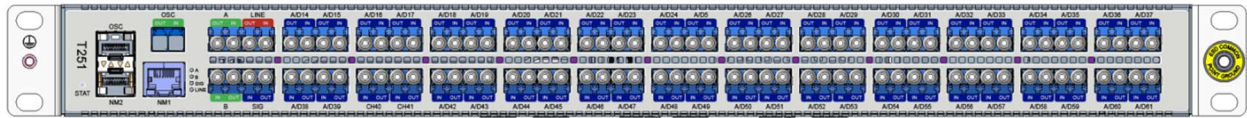
AX-801 Optical Line System is an integrated compact 1RU product that includes optical wavelength multiplexing with variable channel power adjustment, optical amplification, optical channel monitor, optical line protection and optional OTDR functions. It can be used with Zenithtel data center interconnection T512 transponder product or as a standalone optical line system for IPoDWDM applications. The optical wavelength multiplexing has versions of fixed C-band 48 channels (100GHz grid), 32 channels (150GHz grid) or flexible 32 grid so that it can interop with the 400G ZR, 800G ZR and future 1.6T ZR inside routers for campus, metro or even long-haul AI data center interconnections. AX-801 is an open and photonic networking platform that is simple to deploy and operate, which is optimized for space constrained environments.

- 1RU chassis and 460mm depth, suite for 19/21/23 inch rack installation
- Supports 1+1 CRPS power module, 220V AC, high voltage DC, 48V DC power suppliers, and DC+AC hybrid mode
- Support 2+1 Fan pluggable, front to end air flow
- Support 48/32 fixed grid or 32 flexiable grid wavelength with per channel power adjustment functions
- Built-in booster optical amplifier with maximum total output power of 21.5dBm and pre-optical amplifier with variable gain of 22~35dB
- Built-in Optical channel monitor (OCM) and optical line protection as well as optional online OTDR
- Support Auto Power Control and Dynamic Gain Equalization
- Support 10G/1G/100M outband network management
- Support outband and inband OSC networking management
- Unified network management with NETCONF / CLI / SNMP/ TELEMETRY for easy integration with 3rd party system

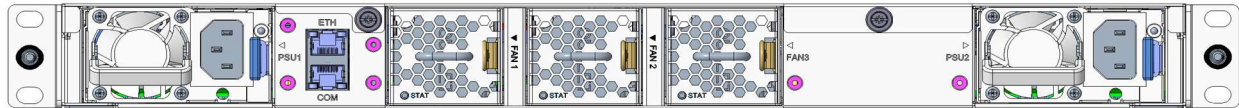
Typical Application Diagram



PRODUCT APPEARANCE



Front View AX-801-OLS-M48



Back View AX-801-OLS-M48

TECHNICAL SPECIFICATIONS

Physical Dimensions

- 44 x 440x 460mm (h×w×d)
- Mounting: 19", 21", 23"

Optical Specifications

- Fixed grid optical Mux/Demux of 48*100GHz or 32*150GHz channel space with 0~15dB EVOA ; Insertion loss < 7dB
- Flexible grid optical Mux/Demux with a twin 32-degree WSS for 50/75/100/150GHz channel space and natural 0~15dB per channel power adjustment; Insertion loss < 8dB
- Booster optical amplifier with variable adjustment of 15~25dB and gain flatness <1.5dB; Each channel minimum input > -28dBm; Maximum total output power not less than 21.5dBm
- Pre-optical amplifier with variable adjustment of 22~35dB and gain flatness <1.5dB; Each channel minimum input > -36dBm; Maximum total output power not less than 21.5dBm
- Built-in Optical Channel Monitor with power accuracy of +/-0.8dB and wavelength accuracy of +/-50pm
- Built-in optical line 1+1 protection with < 15ms switching time
- Optional OTDR (Optical Time Domain Reflectometer), OTDR dynamic range > 35dB and max detection distance > 120km. Distance test accuracy: +/- 1m.

Electrical Power and FANs

- AC power: 90 ~ 264V 50/60Hz
- DC power: -36 ~ -72V
- 1+1 PSU redundancy and field-replaceable
- 2+1 FAN redundancy and field-replaceable
- Air flow: Front-to-back straight-through
- Maximum power consumption < 250W

Management Ports and Protocols

- Pluggable OSC port for different reach @ 1510nm
- 2 x RJ45 Management ports 10/100/1000 Base-T
- 1 x SFP+ 10G Management port
- Support Web/SNMP and network management
 - YANG-based Netconf API
 - CLI/WebGUI/TNMS
 - SNMP V2/V3
 - TACSCS+
 - Telemetry and Syslog

Laser Safty

- IEC 60852 Class1/2

Enviornmental

- Working Temperature: 0°C ~ +40°C/23°F ~ 113°F
- Storage Temperature: -40°C ~ +85°C/-40°F ~ 185°F
- Humidity: 5% ~ 90%

Ordering Information

Items	Part Number	Description
AX-801 Optical Line Product	AX-801-OLSM48-00	With fixed 48 channel C-band vmux and 48 channel demux, Optical Line Protection , Optical Channel Monitor and OTDR
	AX-801-OLSM32-00	With fix 32 channel C-band vmux and 32 channel demux, Optical Line Protection , Optical Channel Monitor and OTDR
	AX-801-OLSF32-00	With flex 32 channel C-band mux/demux (twin WSS32) , Optical Line Protection , Optical Channel Monitor and OTDR
	AX-801-OLSM48-01	With fixed 48 channel C-band vmux and 48 channel demux and Optical Channel Monitor,without Optical Line Protection and OTDR
	AX-801-OLSM32-01	With fix 32 channel C-band vmux and 32 channel demux and OTDR and Optical Channel Monitor,without Optical Line Protection and OTDR
	AX-801-OLSF32-01	With flex 32 channel C-band mux/demux (twin WSS32) and OTDR and Optical Channel Monitor,without Optical Line Protection and OTDR
Coherent ZR Transceiver	AOPP-4QDZRP-01	400G QSFP-DD ZR+ Transceiver with Tx output power of -13~-8dBm; ROSNR: 24dB@400G
	AOPP-80SFPZR-00	800G OSFP ZR+ Transceiver with minimum Tx output power 1 dBm; ROSNR: 24dB@800G