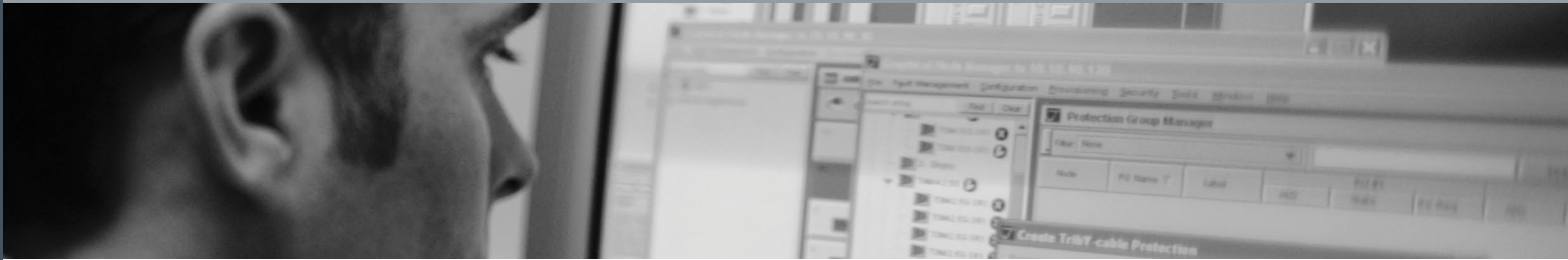


Infinera Optical Line Amplifier



This simple bidirectional in-line amplifier lets you extend the optical reach between Infinera DTNs, delivering up to 1.6 Tb/s per fiber.

Engineered to support up to 1.6 Tb/s channels in the C-band, the Infinera Optical Line Amplifier (OLA) is used to extend the optical reach between DTN nodes and utilize Erbium-doped fiber amplifiers (EDFA) and Raman amplifiers to provide optical amplification of DWDM signals.

The Infinera OLA consists of an Optical Transport Chassis (OTC), which houses two unidirectional Optical Amplifier Modules (OAM) or Raman amplifiers and up to two OTC Management Modules (OMM). The OTC is designed to fit in a 23-inch rack or 600 mm x 600 mm ETSI rack, complete with integrated alarm panel, dual fans, and dual power feeds to support redundant feeds.

At sites where dispersion management is required, mid-stage access permits the use of in-line Dispersion Compensation Modules (DCM). In addition, amplifier modules include optical monitor ports for testing and maintenance.

The OLA supports an integrated Optical Supervisory Channel for in-band communications, management, and control. The Infinera IQ[®] Network Operating System (IQ NOS) includes an intelligent automated gain control protocol that ensures optimal performance and dynamic adjustments to optical line system transients.

The Infinera IQ NOS also includes GMPLS-based dynamic autodiscovery capabilities, which enable all other network elements to discover the presence of the OLA. Optional support for high availability in the management and control plane is facilitated by redundant Optical Management Modules.



Specifications

Type	Parameter	Specification			
Processing and Memory (OMM)	Processor	OMM-A: 400 MHz RISC			
	Persistent RAM (Flash)	OMM-A: 256 MB			
	RAM	OMM-A: 256 MB			
Optical (OAM)	Output Power* (All Types)	OAM-CX1: supports 0-20 dB of span loss with no mid-stage access			
		OAM-CX2-MS: supports 19-26.5 dB of span loss with mid-stage access			
		OAM-CX3-MS: supports 25-30.9 dB of span loss with mid-stage access			
		OAM-CXH1: supports 0-20 dB of span loss with no mid-stage access			
		OAM-CXH2-MS: supports 19-26.5 dB of span loss with mid-stage access			
		OAM-CXH3-MS: supports 25-30.9 dB of span loss with mid-stage access			
		OAM-CXH1-MS: supports 5-22 dB of span loss with mid-stage access			
Mechanical (OTC)	Height	RAM-1: supports up to 32 dB of span loss			
		RAM-2-OR: supports up to 41 dB of span loss			
		REM-2: supports up to 51 dB of span loss			
		ORM-CXH1-MS: supports up to 30 dB of span loss with mid-stage access			
Mechanical (OTC)	Width	ORM-CXH1: supports up to 31 dB of span loss with no mid-stage access			
		Wavelength Range	1530.334 –1563.455 nm		
		OSC Wavelength	1510 nm (OC3)		
			OAM RAM/REM ORM		
Mechanical (OTC)	Depth	10.5"/310 mm	10.5"/310 mm	10.5"/310 mm	
		Weight	3.20"/81 mm	3.20"/81 mm	3.20"/81 mm
			8.53"/217 mm	8.53"/217 mm	8.53"/217 mm
			8.0 lbs/3.6 kg	8.0 lbs/3.6 kg	10 lbs/4.5 kg
Electrical	Power Consumption		26 W (typical)	45 W (typical)	100 W (max)
		53 W (max)	105 W (max)		
Environmental	Input Voltage Range	-40V DC to -60V DC			
		Operating Temperature	5° C to 40° C		
			Storage Temperature	-40° C to 70° C	
Environmental	Humidity	90% non-condensing			

Regulatory and Compliance

Type	Specification
Emissions	FCC Class A, CISPR Class A Compliant, CE
Environmental	NEBS Level 3
Laser Safety	ANSI Class 1, IEC Class 1M, EN 60825
Product Safety	UL/EN/IEC 60950

Infinera uses the latest technology to design its products for minimal energy use and ease of recycling. Infinera complies with the EU WEEE, RoHS, and other global environmental regulations.

*Span loss ranges given are under assumption of launching at 0.0dBm per channel.



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