

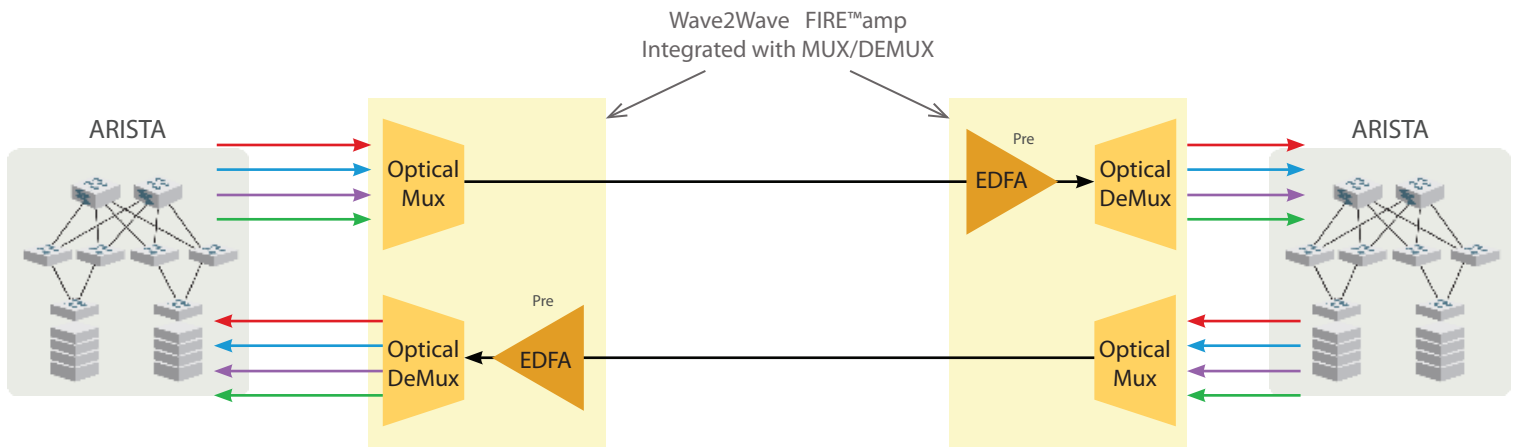


F I R ETM amp

Pre-AMP Integrated with DWDM MUX & DEMUX



FIRE™amp provides amplification for the full C-band with low noise EDFA that enables it to be used as pre-amplifiers, most common in cloud data center interconnect. Wave2Wave offers a fully integrated pre-amplifier with DWDM MUX & DEMUX to support Arista 7500E 100G coherent CFP2 optical interfaces.



Plug & Play Solution

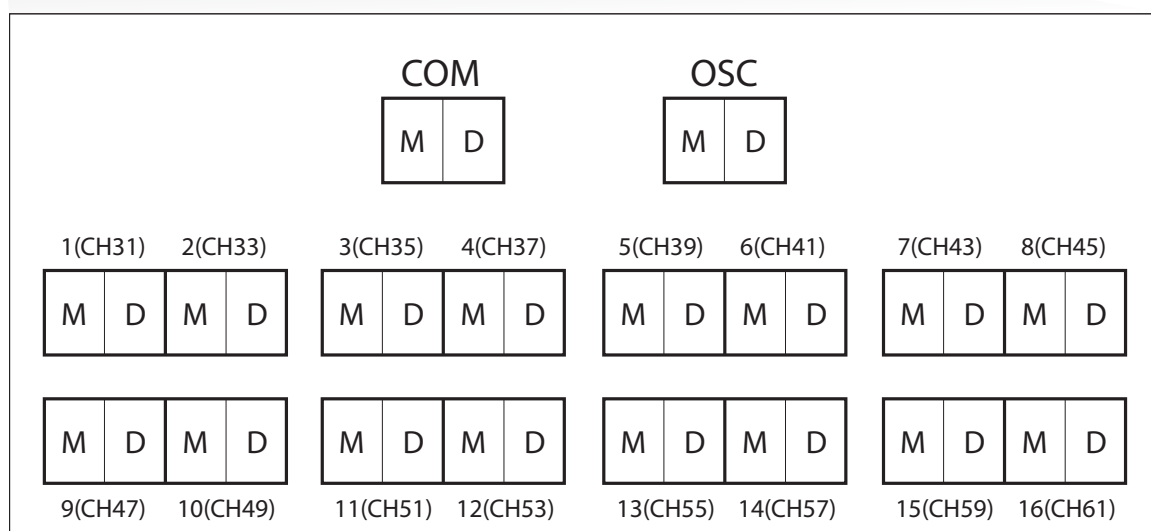
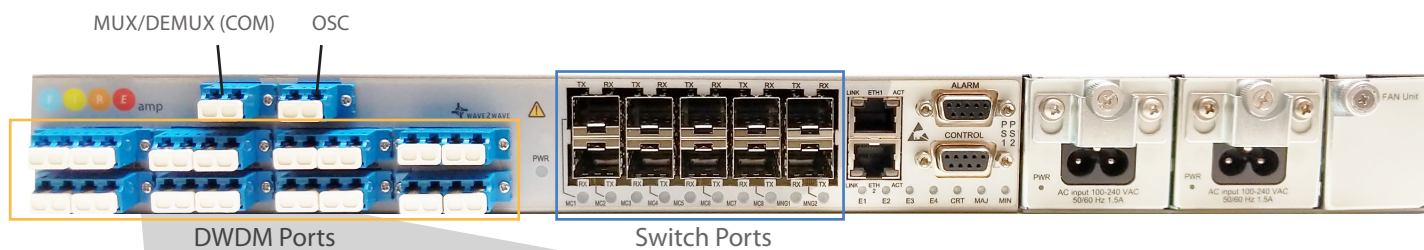
FIRE™amp is designed to extend the power link budget of DWDM solutions in a cost effective manner. FIRE™amp supports AGC (Automatic Gain Control) and APC (Automatic Power Control) operation modes and provides monitoring capabilities on the input and output power.

Applications

- Extending the optical link budget to meet distance and attenuation requirements of DWDM networks
- High throughput Metro Ethernet connectivity over long distances
- Upgrade the optical link budget to support 10G, 40G and 100G services

Pre-Amp Specifications

System		Network Management	
Topology	Point-to-point, Ring, Linear ADM	Management Ports	RJ45 10/100MBase-T, 2x SFP 100Base-X, RS-232 Serial Port, DB9 Alarm Port
Transport Network Medium	Integrated DWDM Over Dark Fiber	Protocols	SNMP, HTTP, HTTPS, Telnet, SSH, Syslog, RADIUS, SNTP
Software Upgrade	Traffic Hitless - dual image	Management	Web browser over HTTP/HTTPS, CLI over RS-232 or CLI over Telnet/SSH
Pre-Amplifier		OAM	Input/Output Power Monitoring, Event Logger, Alarms
Output Power	Up to 7dBm	Management Ch.	2 xOptical Supervisory Channel (OSC)
Input Power	-36dBm up to 15dBm	Visual Indicators	LED status indicators for EDFA ports, power and system
Gain	20dB		



MUX/DEMUX Specifications	
Parameter	16CH
Filter Type	Flat Top
Channel Spacing (GHz)	200
Central Wavelength (nm)	ITU Grid
Passband (@ - 1.0dB Bandwidth) (nm)	≥ 0.725
Passband (@ - 3.0dB Bandwidth) (nm)	≥ 1.05
Fiber Type	SMF 28e
Adjacent Isolation (dB)	≥ 25
Non-Adjacent Isolation (dB)	≥ 25
Polarization Dependent Loss (dB)	≤ 0.4
Directivity (dB)	≥ 50
RL (dB)	≥ 45

ITU Channel Plan		
CH	Frequency (GHz)	Wavelength (nm)
31	193100	1552.52
33	193300	1550.92
35	193500	1549.32
37	193700	1547.72
39	193900	1546.12
41	194100	1544.53
43	194300	1542.94
45	194500	1541.35
47	194700	1539.77
49	194900	1538.19
51	195100	1536.61
53	195300	1535.04
55	195500	1533.47
57	195700	1531.90
59	195900	1530.33
61	196100	1528.77

[See Software User Guide](#)



In Partnership with

ARISTA

for

Cloud Interconnect



ARISTA 1.6Tb DWDM Coherent Line Card for 7500R Series

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