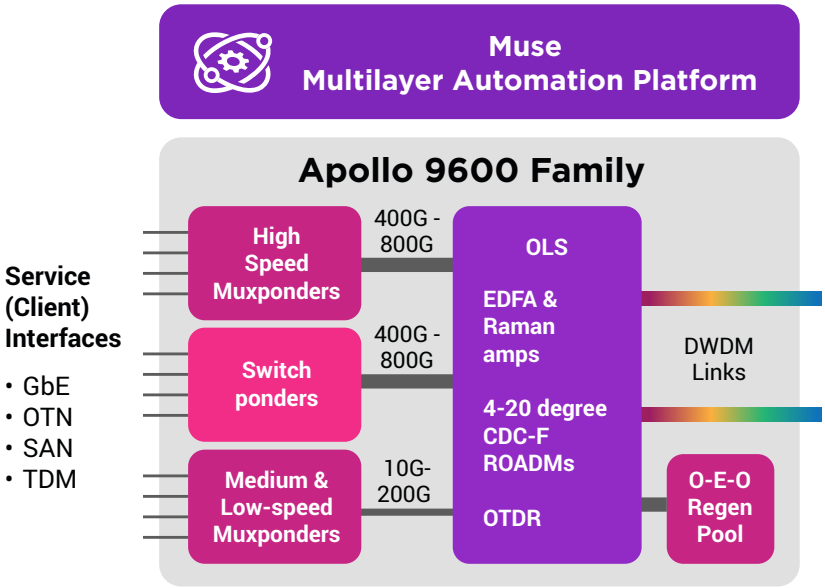
Apollo 9600 Family

Powerful Modular Optical Networking Platforms

The Apollo 9600 family of OTN/DWDM platforms delivers high-performance, cost-effective, and robust access-to-core optical networking solutions. Its comprehensive portfolio of transport and OLS line cards can be applied across all four Apollo 9600 platforms, free from engineering rules or restrictions. This versatility allows the development of customized optical networking solutions that address present requirements while remaining adaptable and cost-effective for future traffic growth and emerging technologies.

Apollo 9600 platforms operate under Ribbon's Muse Multilayer Automation Platform for maximum automation benefits and operational efficiency. Additionally, all platforms support open control interfaces for compatibility with third-party controller environments.



Apollo 9603

Apollo 9608

Apollo 9608D

Apollo 9624

Applications:

- Access Aggregation
- Metro-Regional Transport
- Long Haul and Submarine
- Data Center Interconnection
- Enterprise Private Optical Networks

Major Technical Specifications

Common specifications

Spectrum	C-band, L-band; Flexible grid with 12.5GHz granularity; Fixed grid 50GHz/100GHz
Service (client) interfaces	Ethernet – 1/10/25/100/400/800GbE OTN – OTU 1/2/2e/3/4; FlexO SDH/SONET – STM 1/4/16/64/; OC 3/12/48/192 Fibre Channel – FC 1/2/4/8/10/16/32/64 Video – DVB-ASI, SDI 270, HD-SDI 1.5G/3G
Network (DWDM) interfaces	OTU2/2e (10 Gbps); OTU4 (100Gbps); OTUCx (100Gbps to 800Gbps in 100Gbps increments)
Encryption	AES256-GCM, ECDH, QKD and PQC key exchange; X.509 node authentication; FIPS 140-3 level 3, CC EAL2
Amplification	EDFA, Raman, Hybrid EDFA/Raman, with embedded optical leveling and control Output power: 16 dBm to 26 dBm Gain: up to 40 dB with/without 10 dB midstage
ROADMS	2/4/9/20-degree flexible grid ROADMs for broadcast & select and route & select architectures, with integrated OCM and automatic power equalization, and Colorless, Directionless, and Contentionless (CDC) add/drop
OTDR	Rotating coverage up to 8 fibers with a single module, non-service affecting
Protection	OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI
Restoration	WSON with pre-planned or on-the-fly restoration, and shared regen pools
HW redundancy	All common units/cards: power supply, controllers, fan units
Power input	-40.5 VDC to -75 VDC, AC mains
Environmental	Operating temperature: -5C to +55C (short term) 5C to +45C (long term) Relative humidity: 5% to 90% (non-condensing)
Network management	Muse Multilayer Automation Platform; Command line interface (CLI); Zero-touch provisioning (ZTP); TLS 1.3; rsyslog; TACACS+/Radius/Kerberos; WebUI; NETCONF; OpenConfig; Open ROADM; gNMI/gRPC; SNMPv3 Fault and Performance Management; OSPF-based DCN
Mounting	19”, 23”, and ETSI racks

Individual platform specifications

	9603	9608	9608D	9624
RU Height	2RU	5RU	5RU	15RU
Line card slots	3	8	8	24
Dimensions (H-W-D)	88-442-240 mm	220-443-253 mm	220-443-620 mm	674-489-271 mm
Air flow	Right-to-left	Right-to-left	Front-to-back	Front-to-up
Power consumption	200W typ	585W typ	1100W typ	1200W typ

Specifications subject to change without notice

Contact Us Contact us to find out how Apollo can build powerful and flexible optical networks

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