

Apollo 9408

High Density Compact Modular Optical Transport



Apollo 9408 is the industry's highest-density platform for 100GbE, 400GbE, and 800GbE optical transport. Its selection of sleds provides network and data center operators with both capacity-reach optimized and power-cost optimized transport solutions that can be applied from metro to ultra-long-haul distances. Apollo 9408 also supports complementary IPoDWDM applications.



Apollo 9408 sleds feature advanced transceiver technology. For capacity-reach optimized transport, pluggable 5nm-140Gbaud transceivers utilize continuous baud rate and continuous modulation controls to maximize the line rate, from 400G to 1200G, for any distance and channel width up to the edge of the Shannon Limit. For power-cost optimized transport, both pluggable 400ZR+ and 800ZR+ transceivers are available on the same sled to accommodate different traffic needs.

Apollo 9408 not only delivers exceptional performance but also incorporates numerous features to facilitate deployment and operability. It is housed in a compact 2RU chassis with front-to-back cooling suitable for data center environments and all common modules are field replaceable. Auto-discovery and gNMI telemetry support advanced operations. Apollo 9408 can be managed alongside other Ribbon networking platforms via Muse Multilayer Automation Platform or deployed in a disaggregated manner with control via an OpenConfig API.

Ultra High Density up to 25.6T in 2RU Ultra Low Power less than 0.07W/G

Programmable line rates up to 1.2T Advanced Operations with optional disaggregated control



Typical Apollo 9408 Configurations

Traditional bookended optical transport



Complementary with IPoDWDM







Technical Specifications

(For more details on the sleds, see their data sheets)

Spectrum	C-band, L-band; Flexible grid with 12.5GHz granularity, fixed grid 50GHz/100GHz
Capacity	8 single slot or 4 double slot sleds, mixing allowed
MPJ1200_2 sled: Capacity-Reach Optimized 400G to 1.2T Muxponders	 Two independent muxponders, each supporting: A 400G to 1.2T line based on 5nm-140Gbaud CIM 8 pluggable transceivers featuring continuous baud rate and modulation controls Any mix of 100GbE, 400GbE, and 800GbE clients to the line capacity, gray or ZR+
MPQ_8 sled: Power-Cost Optimized 400G/800G ZR+ Muxponders	 Eight independent muxponders, each supporting: A 400G ZR+ or 800G ZR+ line based on QSFP-DD-DCO 0dBM+ pluggable transceivers; Open ZR+ and OpenROADM MSA compliant Any mix of 100GbE, 400GbE, and 800GbE clients to the line capacity, gray or ZR+
FPQ_2: Power-Cost Optimized 400G/800G ZR+ Muxponders with LR4 Support	 Dual 400G or single 800G muxponder, with: Two 400G ZR+ lines, or a single 800G ZR+ line, based on QSFP-DD-DCO 0dBM+ pluggable transceivers; Open ZR+ and OpenROADM MSA compliant; Y-protection Any mix of 100G and 400G clients to the line capacity, including all 100GbE variants (e.g. LR4, ER4F, ZR4), 100ZR, and 400GbE gray or ZR+
GPQ_2: Power-Cost Optimized 400G/800G ZR+ Muxponders with LR4 & OTU4 Support	 Dual 800G muxponders supporting: A 400G ZR+ or 800G ZR+ line, based on QSFP-DD-DCO 0dBM+ pluggable transceivers; Open ZR+ and OpenROADM MSA compliant; Y-protection mode Any mix of 100G and 400G clients to the line capacity, including all 100GbE variants (e.g. LR4, ER4F, ZR4), 100ZR, and OTU4, and 400GbE gray or ZR+
Physical	 600 x 440 x 88.4 mm Front to back airflow 0°C - 45°C All common modules field replaceable
Power	 Max 3200W 90VAC-240VAC redundant PSU Max 3300W 40.5VDC-72VDC redundant PSU
Operations	 SNMP, ZTP, CLI Auto discovery gNMI telemetry Integrated performance monitoring
Security	 Syslog, Syslog-ng RADIUS, TACACS+, Kerberos TLS 1.3, SSH, SNMPv3
Controller	6 ports (1 console, 4 RJ45, 1 USB-C)
Management	 Muse Multilayer Automation Platform OpenConfig and OpenROADM APIs

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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