

## Apollo 9624

## Powerful and Versatile Core Optical Transport

Apollo 9624 is a powerful and versatile optical transport platform for heavy lifting core network applications. It accommodates the entire range of Apollo transponder, muxponder, ROADM, and amplification blades. Each of its 24 slots supports dual 400G density-power-cost-optimized blades, for a total client plus line platform capacity of 38.4T. It also supports double-slot blades that delivers two performance-optimized 800G lines, for the most demanding transport applications.

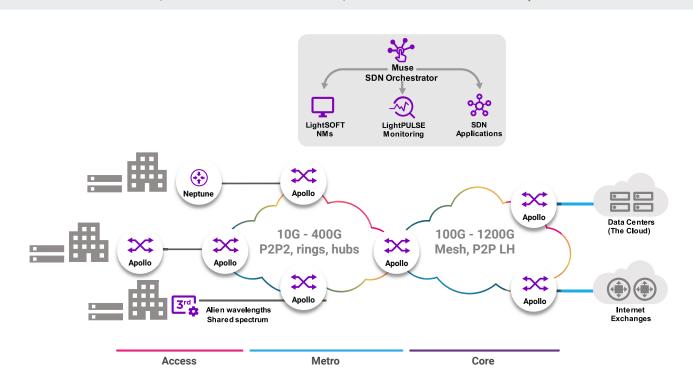
Apollo optical transport and switching platforms combine to deliver high-performance access-to-core optical networking solutions at the lowest cost per bit. Highly modular, they are tailorable into solutions that precisely meet current needs, and can evolve economically to accommodate traffic growth and new technologies. All Apollo platforms support multiservice client interfaces including 400GbE, as well as alien wavelengths, shared spectrum, and packet services. They are controllable through Muse Domain Orchestrator, or directly, via open industry-standard interfaces, and can stand by themselves in disaggregated networks such as for Open Optical Line Systems.



Programmable for SDN applications

Open for modular disaggregated solutions **Self-aware** for E2E visibility and operability

Efficient low power and high density





## **Technical Specifications**

Extended C-band   Extended C-band   Flexible grid at 6.25GHz resolution   Flexible grid grid grid grid grid grid grid grid		
Flexible grid at 6.25GHz resolution   Fixed grid: 50GHz/96ch, 75GHz/64ch, 100GHz/48ch   Super-channel up to 128 channels   Super-channel up to 128 channels   24 slots for blades, interchangeable across Apollo family of transport platforms Max platform capacity   38.4T (19.2T client capacity)   Service (client) interfaces   SPH/SONET (STM-1, 4, 16, 64/0C-3, 12, 48, 192)   SAN (FC-1, 2, 4, 8, 10, 16, 32, 64)   Video (DVB-ASI, SDI 270, DN-SDI 1.5G/3G)   OTU 1, 2, 2e, 3, 4; Flex0   MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation   AES256-GCM encryption, Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2   OTU 1 (2.5 Gbps)   OTUC2 (200 Gbps)   OTUC2 (200 Gbps)   OTUC2 (200 Gbps)   OTUC3 (400 Gbps)   OTUC4 (100 Gbps)   OT	Topologies	Mesh, hub, ring, linear, point-to-point
Fixed grid: 50GHz/96ch, 75GHz/64ch, 100GHz/48ch Super-channel up to 128 channels  24 slots for blades, interhangeable across Apollo family of transport platforms Max platform capacity 38.4T (19.2T client capacity plus 19.2T line capacity)  Ethernet (1GbE, 10GbE, 40GbE, 10GbE, 40GbE) SDH/SONET (STM-1, 4, 16, 64/0C-3, 12, 48, 192)  SAN (FC-1, 2, 4, 8, 10, 16, 32, 64) Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G) OTU 1, 2, 2e, 3, 4; FlexO  MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation  Security and Encryption  ASS256-GCM encryption, Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU (2.5 Gbps) OTU2/2e (10 Gbps) OTU2/2e (10 Gbps) OTU3e (40 Gbps)		
Capacity  24 slots for blades, interchangeable across Apollo family of transport platforms Max platform capacity 38.4 T(19.2T client capacity plus 19.2T line capacity)  Ethernet (1GbE, 10GbE, 40GbE, 10GbE, 40GbE)  SPM/SONET (STM-1, 4, 16, 64/OC-3, 12, 48, 192)  SAN (FC-1, 2, 4, 8, 10, 16, 32, 64)  Video (OVB-ASI, SDI 270, HD-SDI 1.5G/3G)  OTU 1, 2, 2e, 3, 4, FlexO  MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation  Security and Encryption  AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU (2.5 Gbps)  OTU2/2e (10 Gbps)  OTU2/2e (10 Gbps)  OTU2/2e (10 Gbps)  OTU4 (400 Gbps)  OTU4 (100 Gbps)  OT	Spectrum	
Capacity   24 slots for blades, interchangeable across Apollo family of transport platforms Max platform capacity 98.4T (19.2T client capacity plus 19.2T line capacity)		
thernet (16bE, 106bE, 406bE, 1006bE, 4006bE)  Service (client) interfaces  Ethernet (16bE, 106bE, 406bE, 1006bE, 4006bE)  SDH/SONET (STM-1, 4, 16, 64/OC-3, 12, 48, 192)  SAN (FC-1, 2, 4, 8, 10, 16, 32, 64)  Video (0VB-ASI, SDI 270, HD-SDI 1.56/3G)  OTU 1, 2, 2, e, 3, 4; FlexO  MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation  AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU1 (2.5 Gbps)  OTU2 (200 Gbps)  OTU2 (200 Gbps)  OTU2 (400 Gbps)  OTU2 (400 Gbps)  OTU3 (400 Gbps)  OTU3 (400 Gbps)  OTU3 (400 Gbps)  OTU3 (400 Gbps)  OTU4 (100 Gbps)  OTU		
Service (client) interfaces SAN (FC-1, 2, 4, 8, 10, 16, 32, 64) Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G) OTU 1, 2, 2e, 3, 4; FlexO  MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation multiplexing transport aggregation  Security and Encryption Security and Encryption AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU (2.5 Gbps) OTU2 (200 Gbps) OTU2 (200 Gbps) OTU2 (200 Gbps) OTU2 (400 Gbps) OTU2 (400 Gbps) OTU4 (100 to 800Gbps, in 50Gbps increments) 2-, 4-, 9-, and 20-degree ROADMs (flexible and fixed grid) with OCM and automatic power equalization and Colorless, Directionless, and Contentionless (CDC) wavelength routing Fixed OADM 100% add/drop capacity 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  Protection OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI Spectrum Switched Optical Network (SSON) - spectrum level Wavelength Switched Optical Network (WSON) - wavelength level Automatic Switched Optical Network (ASON) - service level 1+1, 1+1 forever, preplanned/dynamic protection  HW redundancy All common units/cards: power supply, controllers, fan units Dimensions ETSI width, 674 mm height, 271 mm depth, 24 service slots Power input -40.5 VDC to -75 VDC, AC mains Operating temperature: -5C to +55C (short term) 5C to +45C (long term) Relative humidity: 5% to 90% (non-condensing)  SDN Muse Optical Dormain Controller and Applications Network management LightSOFT® end-to-end, point-and-click network management LightSOFT® end-to-end, point-and-click network management LightSOFT® end-to-end, point-and-click network management	Capacity	
Service (client) interfaces  SAN (FC-1, 2, 4, 8, 10, 16, 32, 64) Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G) OTU 1, 2, 2e, 3, 4; FlexO  WEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation  AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU1 (2.5 Gbps) OTU2 (200 Gbps) OTU2 (200 Gbps) OTU2 (400 Gbps) OTU2 (400 Gbps) OTU4 (100		Ethernet (1GbE, 10GbE, 40GbE, 100GbE, 400GbE)
Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G)		·
Layer 2 interfaces  MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation  AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU 1 (2.5 Gbps) OTUC2 (200 Gbps) OTU2/2e (10 Gbps) OTUC4 (400 Gbps) OTU3 (400 Gbps) OTUC4 (400 Gbps) OTU4 (100 Gbps) OTUC4 (100 Gbps) OTU4 (100 Gbps) OTUC6 (600 Gbps) OTUC6 (600 Gbps) OTUC6 (600 Gbps) OTUC6 (600 Gbps) OTUC7 (100 Gbps) OTUC6 (600 Gbps) OTUC7 (100 Gbps) OTUC6 (600 Gbps) OTUC7 (100 Gbps) OTUC6 (600 Gbps) O	Service (client) interfaces	·
MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation		
Security and Encryption         AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication, enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2           Network (DWDM) interfaces         OTUC (2.5 Gbps) OTUC4 (200 Gbps) OTUC4 (400 Gbps) OTUC4 (400 Gbps) OTUC4 (400 Gbps) OTUC4 (600 Gbps) OTUC4 (600 Gbps) OTUC4 (100 Gbps		
enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2  OTU 1 (2.5 Gbps) OTUC2 (200 Gbps) OTUC4 (400 Gbps) OTUC4 (400 Gbps) OTUG (600 Gbps) OTUG (600 Gbps) OTUG (600 Gbps) OTUG (100 Gbps) OTUG (600 Gbps) OTUG (100 Gbps) OTUG (100 Gbps) OTUG (600 Gbps) OTUG (100 Gbps) OTUG (600 Gbps) OTUG (100 Gbps) OTUG (100 to 800Gbps, in 50Gbps increments)  2-, 4-, 9-, and 20-degree ROADMs (flexible and fixed grid) with OCM and automatic power equalization and Colorless, Directionless, and Contentionless (CDC) wavelength routing Fixed OADM 100% add/drop capacity  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  Protection OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI  Spectrum Switched Optical Network (SSON) - spectrum level Wavelength Switched Optical Network (WSON) - wavelength level Automatic Switched Optical Network (ASON) - service level 1+1, 1+1 forever, preplanned/dynamic protection  HW redundancy All common units/cards: power supply, controllers, fan units  Dimensions ETSI width, 674 mm height, 271 mm depth, 24 service slots  Power input -40.5 VDC to -75 VDC, AC mains  Operating temperature: -5C to +55C (short term) 5C to +45C (long term)  Relative humidity: 5% to 90% (non-condensing)  SDN Muse Optical Domain Controller and Applications  Network management LightsOFT® end-to-end, point-and-click network management  Performance monitoring LightPULSE* integrated real-time OSNR and other parameters, and integrated OTDR  Control interfaces	Layer 2 interfaces	
Network (DWDM) interfaces  OTU1 (2.5 Gbps) OTUC2 (200 Gbps) OTU2/2e (10 Gbps) OTUC4 (400 Gbps) OTU3e (40 Gbps) OTUC6 (600 Gbps) OTU3e (40 Gbps) OTUC6 (600 Gbps) OTUA (100 Gbps) OTUC6 (600 Gbps) OTUC6 (	Convity and Engryption	AES256-GCM encryption; Diffie-Hellman key exchange with X.509 node authentication,
Network (DWDM) interfaces         OTU2/2e (10 Gbps) OTU3e (40 Gbps) OTU3e (600 Gbps) OTU3e (40 Gbps) OTU4 (100 Gbps) OTU4 (100 Gbps) OTUA (100 to 800Gbps, in 50Gbps increments)           Optical add/drop multiplexers         27, 44, 9-, and 20-degree ROADMs (flexible and fixed grid) with OCM and automatic power equalization and Colorless, Directionless, and Contentionless (CDC) wavelength routing Fixed OADM 100% add/drop capacity           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           Protection         OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI           Spectrum Switched Optical Network (SSON) - spectrum level Wavelength Switched Optical Network (WSON) - wavelength level Automatic Switched Optical Network (ASON) - service level 1+1, 1+1 forever, preplanned/dynamic protection           HW redundancy         All common units/cards: power supply, controllers, fan units           Dimensions         ETSI width, 674 mm height, 271 mm depth, 24 service slots           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)           SDN         Muse Optical Domain Controller and Applications           Network management         LightSOFT® end-to-end, point-and-click network management           Performance monitoring         LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR	Security and Encryption	enhanceable with external QKD keys and with PQC algorithms; FIPS 140-3 level 3; CC EAL2
Optical add/drop multiplexers  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  Protection  OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI  Spectrum Switched Optical Network (SSON) - spectrum level Wavelength Switched Optical Network (WSON) - wavelength level Automatic Switched Optical Network (WSON) - service level 1+1, 1+1 forever, preplanned/dynamic protection  HW redundancy  All common units/cards: power supply, controllers, fan units  Dimensions  ETSI width, 674 mm height, 271 mm depth, 24 service slots  Power input  -40.5 VDC to -75 VDC, AC mains  Operating temperature: -5C to +55C (short term) 5C to +45C (long term)  Relative humidity: 5% to 90% (non-condensing)  SDN  Muse Optical Domain Controller and Applications  Network management  LightSOFT® end-to-end, point-and-click network management  Performance monitoring  LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR  Control interfaces  Netconf/Yang open interface	Network (DWDM) interfaces	
Optical add/drop multiplexers  Optical multiplexers  Optic		
Optical add/drop multiplexers         2-, 4-, 9-, and 20-degree ROADMs (flexible and fixed grid) with OCM and automatic power equalization and Colorless, Directionless, and Contentionless (CDC) wavelength routing Fixed OADM 100% add/drop capacity         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         Protection       OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI         Restoration       Spectrum Switched Optical Network (SSON) - spectrum level Wavelength Switched Optical Network (WSON) - wavelength level Automatic Switched Optical Network (ASON) - service level 1+1, 1+1 forever, preplanned/dynamic protection         HW redundancy       All common units/cards: power supply, controllers, fan units         Dimensions       ETSI width, 674 mm height, 271 mm depth, 24 service slots         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)         SDN       Muse Optical Domain Controller and Applications         Network management       LightSOFT® end-to-end, point-and-click network management         Performance monitoring       LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR         Control interfaces       Netconf/Yang open interface		
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HW redundancyAll common units/cards: power supply, controllers, fan unitsDimensionsETSI width, 674 mm height, 271 mm depth, 24 service slotsPower input-40.5 VDC to -75 VDC, AC mainsEnvironmentalOperating temperature: -5C to +55C (short term) 5C to +45C (long term) Relative humidity: 5% to 90% (non-condensing)SDNMuse Optical Domain Controller and ApplicationsNetwork managementLightSOFT® end-to-end, point-and-click network managementPerformance monitoringLightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDRControl interfacesNetconf/Yang open interface	nesturation	
Dimensions       ETSI width, 674 mm height, 271 mm depth, 24 service slots         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)         SDN       Muse Optical Domain Controller and Applications         Network management       LightSOFT® end-to-end, point-and-click network management         Performance monitoring       LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR         Control interfaces       Netconf/Yang open interface	HW redundancy	
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Relative humidity: 5% to 90% (non-condensing)  SDN Muse Optical Domain Controller and Applications  Network management LightSOFT® end-to-end, point-and-click network management  Performance monitoring LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR  Control interfaces Netconf/Yang open interface	Power input	
Relative humidity: 5% to 90% (non-condensing)  SDN Muse Optical Domain Controller and Applications  Network management LightSOFT® end-to-end, point-and-click network management  Performance monitoring LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR  Control interfaces Netconf/Yang open interface	Environmental	Operating temperature: -5C to +55C (short term) 5C to +45C (long term)
Network management       LightSOFT® end-to-end, point-and-click network management         Performance monitoring       LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR         Control interfaces       Netconf/Yang open interface		Relative humidity: 5% to 90% (non-condensing)
Performance monitoring         LightPULSE™ integrated real-time OSNR and other parameters, and integrated OTDR           Control interfaces         Netconf/Yang open interface	SDN	Muse Optical Domain Controller and Applications
Control interfaces Netconf/Yang open interface	-	
Management Ports One IMG port, four multi-shelf ports		
	Management Ports	One IMG port, four multi-shelf ports

Specifications subject to change without notice

Contact Us We are here to help. Contact us about our IP Wave Solutions.



