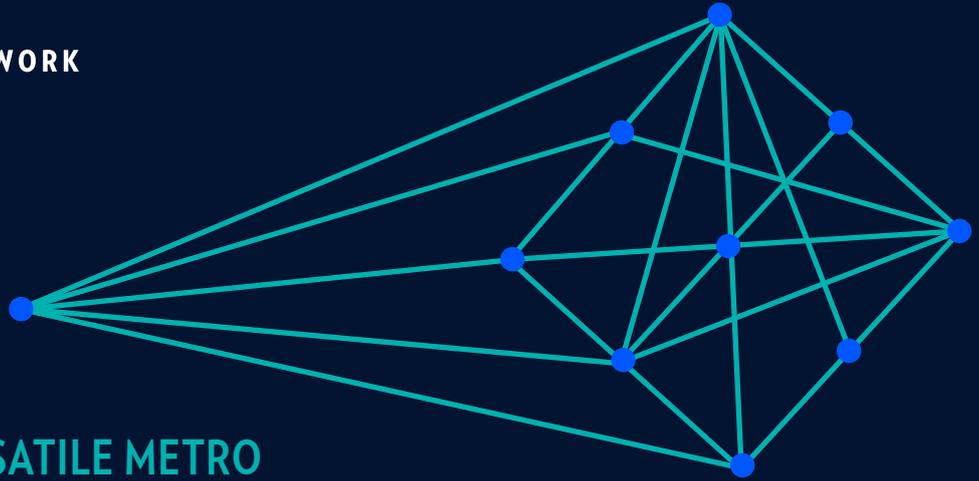


# APOLLO OPT9603

## POWERFUL AND VERSATILE METRO ACCESS OPTICAL TRANSPORT



The Apollo family of optical transport and switching platforms enables service providers to deploy end-to-end transparent optical networking solutions for a broad range of clients at the lowest cost per bit. Moreover, Apollo does this while simultaneously supporting packet services, high efficiency operations, high availability, low-latency Layer 1 encryption, and SDN applications. The OPT9603 is Apollo's powerful and versatile metro access and enterprise transport platform with a total client and network capacity of 2.4T. The OPT9603's arsenal of transponders and muxponders includes 100G, 200G, and 400G network interfaces that are software programmable for varied client mixes. Its compact size and modularity make the OPT9603 ideal for multiple applications: access site, in-line amplification, and stand-alone ROADM. Along with other members of the Apollo family, the OPT9603 can be used to construct and customize any type of access-through-core and data-center-connectivity optical transport application.

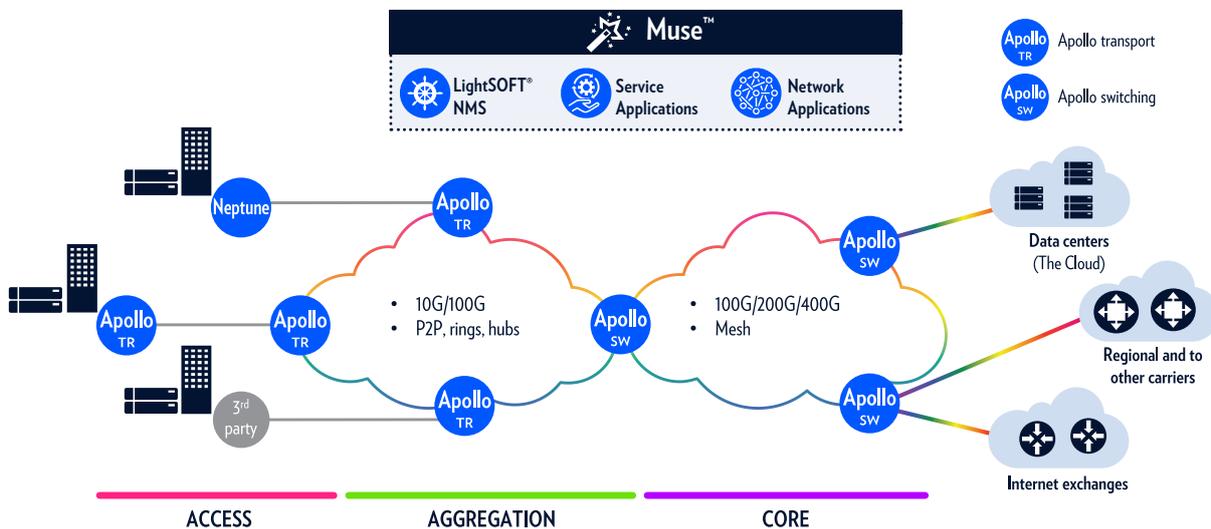


**Lowest cost per bit**  
transparent transport

**Integrated packet services**  
MEF Carrier Ethernet

**High-efficiency operation**  
E2E visibility and control

**Green technology**  
dense low-power blades



# Technical specifications

<b>Topologies</b>	Mesh, hub, ring, linear, point-to-point
<b>Spectrum</b>	Extended C-band Fixed grid: 50GHz/96ch and 100GHz/48ch Flexible spectrum at 12.5GHz resolution, with 37.5GHz bandwidth for all coherent network interface rates
<b>Capacity</b>	Shelf: 3 slots for blades, interchangeable across Apollo family transport platforms 1.2T client capacity (2.4T total capacity)
<b>Service (client) interfaces</b>	Ethernet (1GbE, 10GbE, 40GbE, 100GbE) SDH/SONET (STM-1, 4, 16, 64/OC-3, 12, 48, 192) SAN (FC-1, 2, 4, 8, 10, 16) Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G) OTU (1, 2, 2e, 3, 4)
<b>Layer 2 interfaces</b>	MEF Carrier Ethernet 2.0 virtual LAN services: E-Line, E-LAN, E-Tree, and E-Access Statistical multiplexing transport aggregation Connection-oriented transport using integrated 60G Q-in-Q or MPLS-TP switch
<b>Encryption</b>	AES256-GCM with Diffie-Hellman group 5 key exchange, FIBS 140-2, level 2
<b>Network (DWDM) interfaces</b>	OTU1 (2.5 Gbps)                      OTUC2 (200 Gbps) OTU2/2e (10 Gbps)                OTUC4 (400 Gbps) super-channel OTU3e (40 Gbps) OTU4 (100 Gbps)
<b>Optical add/drop multiplexers</b>	2-, 4-, 9-, and 20-degree ROADMs (fixed grid and flexible grid) with automatic power equalization and Colorless, Directionless, and Contentionless (CDC) wavelength routing Fixed OADM 100% add/drop capacity
<b>Amplification</b>	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
<b>Protection</b>	OCH 1+1, OLP, OMSP, Y Protection, DRI/DNI
<b>Restoration</b>	Wavelength Switched Optical Network (WSON) – wavelength level Automatic Switched Optical Network (ASON) – service level 1+1, 1+1 forever, preplanned/dynamic protection
<b>HW redundancy</b>	All common units/cards: power supply, controllers, fan units
<b>Dimensions</b>	19" width, 88 mm height, 240 mm depth, 3 service slots
<b>Power input</b>	-40.5 VDC to -75 VDC, AC mains
<b>Environmental</b>	Operating temperature: -5C to +55C Relative humidity: 5% to 90% (non-condensing)
<b>SDN</b>	Muse™ applications (e.g. Bandwidth on Demand, Scheduled Services)
<b>Network management</b>	LightSOFT® end-to-end, point-and-click network management
<b>Performance monitoring</b>	LightPULSE™ integrated real-time OSNR and other parameters

Specifications subject to change without notice

## Contact us to find out how Apollo can build powerful and versatile optical networks

### ABOUT ECI



ECI is a global provider of ELASTIC network solutions to CSPs, utilities as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow. For more information, visit us at [www.ecitele.com](http://www.ecitele.com)