



Your Partner for Growth

## Apollo OPT9608

### Metro Access and Core Optical Transport



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Growth



- High-density carrier-class optical transport
- Optimized for metro access and core transport applications
- 8 slots for common Apollo family blades
- OTN Transport solution with transponders and muxponders
- Ethernet layer 2 packet processing
- 2 and 4-degree CDC ROADMs
- Industry best 100G for longest distance coherent DCF-less links
- Storage Area Network certified
- Protection switching augmented by WSON restoration
- SmartLight network management and service automation suite

#### Description

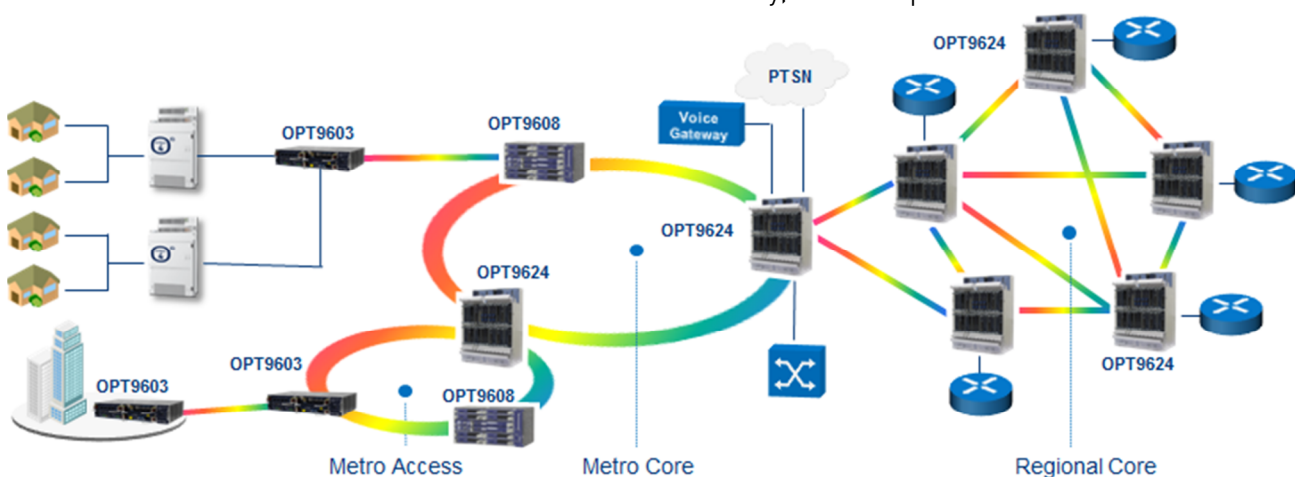
The densely packaged OPT9608 builds powerful and flexible optical transport applications across metro access, metro core, and larger enterprise networks, at competitive Capex. It is a member of the Apollo family of optical transport platforms that can be used to construct and customize any type of access-through-core and enterprise optical transport application.

The OPT9608 terminates and aggregates a broad range of Ethernet, Storage Area Network, Time Division Multiplex and Video service interfaces, and converts them to dense wavelength division multiplex (DWDM) optical signals using the Optical Transport Network (OTN) "digital wrapper" standard.

Ethernet layer 2 services provide data aggregation, virtual LANs, and connection-oriented MPLS-TP transport.

The OPT9608 provides end-to-end optical transport without electrical conversion and regeneration, with software-controlled wavelength add/drop and routing enabled by reconfigurable optical add/drop multiplexers (ROADMs). Its state-of-the-art transmission and amplification technologies lead the industry for distance without regeneration, and its coherent 40G and 100G solutions eliminate DCF modules.

ECI's SmartLight service automation suite provides the OPT9608 with 360-degree support for rapid provisioning, high service availability, and low Opex.



Technical Specifications	
Topologies	Mesh, hub, ring, linear, point-to-point
Spectrum	C-band Fixed spectrum - 88 channels at 50 GHz, 44 channels at 100 GHz Flexible spectrum (gridless)
Capacity	Shelf: 8 slots for blades, interchangeable across Apollo family platforms Link: 8.8 Tbps (88 ch x 100 Gbps)
Service interfaces	Ethernet (1GbE, 10GbE, 40GbE, 100GbE) SDH/SONET (STM-1,4,16,64 / OC-3,12,48,192) SAN (FC-1,2,4,8,16) Video (DVB-ASI, SDI 270, HD-SDI 1.5G/3G) OTU (1, 2, 2e, 3, 4)
Layer 2 processing	MPLS-TP connection-oriented transport Data aggregation Virtual LAN services
Encryption	AES256-GCM with Diffie-Hellman group 5 key exchange
Network (DWDM) interfaces	OTU1 (2.5 Gbps) OTU2/2e (10 Gbps) OTU3e (40 Gbps) OTU4 (100Gbps)
Optical Add/Drop Multiplexers	2 and 4 degree ROADMs with automatic power equalization and colorless, directionless, and contentionless (CDC) capabilities Fixed OADM 100% add/drop capacity
Amplification	EDFA, Raman, Hybrid EDFA/Raman, with embedded optical leveling and control Output power from 16 dBm to 23 dBm Gain up to 40 dB with 10 dB midstage
Protection	OCH 1+1, OLP, OMSP, Y Protection, 1+n optical, DRI/DNI
Restoration	Wavelength Switched Optical Network (WSOON)- wavelength level 1+1, 1+1 forever, preplanned/dynamic protection
HW redundancy	All common units/cards: power supply, controllers, fan units
Dimensions	19" width, 221 mm (5U) height, 253 mm depth, 8 service slots
Power input	-40.5 VDC to -75 VDC
Environmental	Operating temperature: -5°C to +55°C Relative humidity: 5% to 90% (non-condensing)
SmartLight automation support suite	LightApp: Virtualization & SDN APIs for network programmability LightSoft: E2E point & click network management for lowest Opex LightPlan: Optimal network design for lowest Capex LightPath: ASON/WSOON restoration control for highest availability

Specifications subject to change without notice



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1Net is ECI's framework for addressing your pain points and needs in your daily operations and strategic planning. What's keeping you up at night? Whether it's reducing time to market for new services, mitigating risk, improving performance or protecting investments, we're here as your true partner, to take your business to the next level together.

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