Apollo TM400ENB

Multiservice 400G Muxponder with Encryption



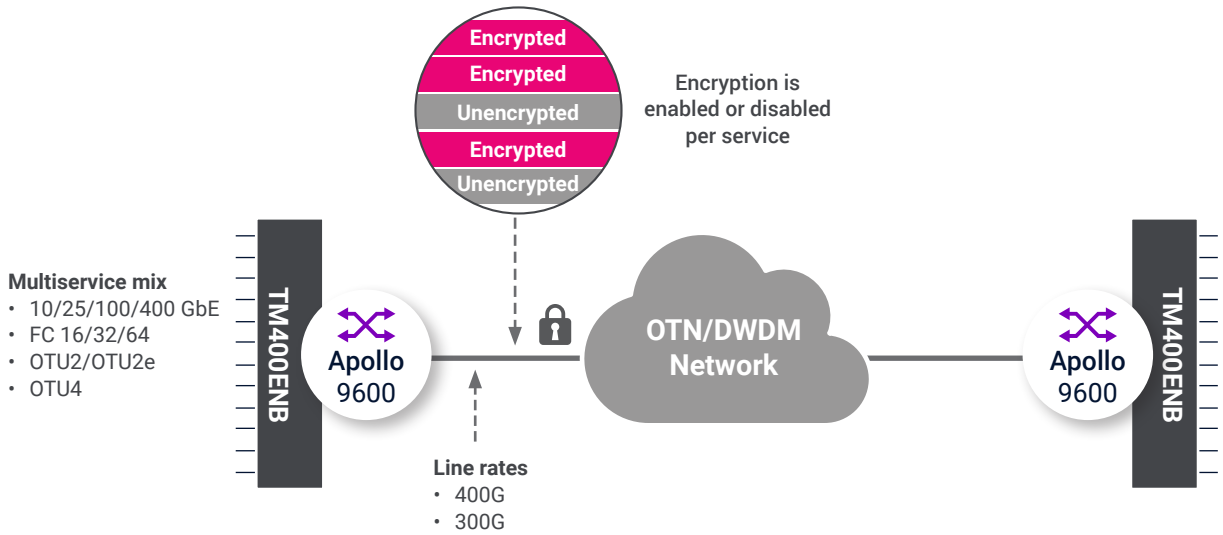
Apollo TM400ENB is an ideal vehicle for extending optical networking services to business and enterprises, and for building private optical networks.



It aggregates multiple lower speed clients onto a 400G line interface for economic efficiency. It can then selectively apply layer 1 optical encryption to each client service, or not, making it a vehicle for value-added services or for conforming to requirements for communications security.
It uses the highest level of AES256 GCM encryption with initialization vector and message integrity check. It supports both Diffie-Hellman and Post Quantum Computing key distribution, which can be administered by an end-user using External Key Management. Further it supports FIPS 140-3 Level 3 and X.509 certification.

TM400ENB can be deployed in any Apollo 9600 series platform, either as part of an integrated Ribbon network or as overlay alien wavelength with disaggregated control.

Multi-services Aggregation	Selective Encryption	OpenROADM Interoperable	Disaggregated Deployment



Technical Specifications

400G Multiservice Aggregation with Per-Service Encryption	
Apollo platforms	9603, 9608/D, 9624
Platform slots	Dual
Modes of operation	Muxponder aggregating multiple services types and speeds to a 400G line, with optional per-service layer 1 optical encrtption
Line interfaces	• 1 x CFP2-DCO • 300G/400G with adaptive modulation support for 8QAM, or 16QAM • OpenROADM MSA transmission compliant • Flexible grid with 12.5GHz granularity, fixed grid 50GHz and 100GHz
Client interfaces	1 x QSFP-DD port, 4 x QSFP+/28 ports, and 16 x SFP+/SFP28/SFP56 ports for: • 10GE, 25GbE, OTU4, 100GE, 400GE • OTU2 and OTU2e • FC16, FC32, and FC64
Protection	OCH1+1, OLP
Management	GCC in-band management
Encryption	• AES256 GCM encryption with initialization vector and message integrity check • Diffie-Hellman group 14 and 24 algorithms • Optional: PQC algorithms and ETSI QKD 014 • FIPS 140-3 Level 3 • X.509 certification

Specifications subject to change without notice

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

About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon, please visit rbbn.com.

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