



MPX-9105

Flexible Metro 100G Platform

Optelian's MPX-9105 platform provides comprehensive capabilities to dramatically boost network capacity while reducing cost per bit. Configurable as either a muxponder or transponder, the MPX-9105 can aggregate and transport any mix of 10 Gb/s, 40 Gb/s, and 100 Gb/s services over a 100 Gb/s OTN DWDM wavelength.



Network flexibility

- 10/40 Gb/s muxponder and 100 Gb/s transponder in one

Service aggregation options

- 10x10 Gb/s
- 1x40 Gb/s + 6x10 Gb/s
- 2x40 Gb/s + 2x10 Gb/s

Client support

- 10GbE, 40GbE, 100GbE, OC-192/STM-64, 8/10G FC, OTU2/3/4

Performance monitoring

- Protocol-based performance monitoring for client and line interfaces

Best optical reach

- DP-QPSK DWDM line interface with coherent optical receiver plus FEC

Standalone design

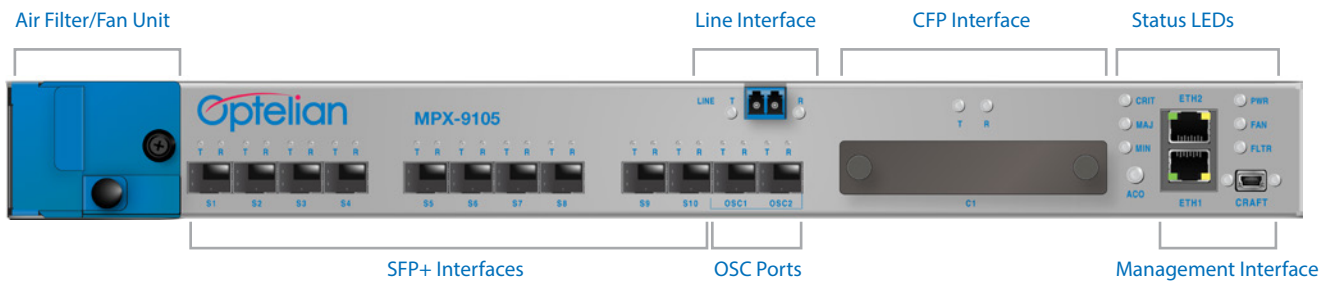
- Service delivery, management, GCC, and OSC in a compact 1RU form factor

The MPX-9105 gives network operators maximum flexibility and efficiency in delivering independent 10G and 100G services at any site. Its standalone 1RU configuration is more compact and easier to use than bulky, service card-based products that are complex to configure.

Get more out of your network

Purpose-built to address DWDM network capacity enhancement and 10G/40G/100G service delivery applications, the MPX-9105 solves network capacity and expansion challenges. It defers the need for costly overbuilds to accommodate growth, and delivers an enhanced network ROI compared to 10 Gb/s wavelength network approaches. The advanced capabilities of the MPX-9105 pave the way for new service offerings, creating new revenue opportunities.

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Full integration with 10 Gb/s networks

Supporting commonly deployed 10, 40, and 100 Gb/s protocols, the MPX-9105 can be fully integrated into existing 10 Gb/s networks, lengthening their service delivery life with new service capabilities and capacity. Hybrid 10 Gb/s and 40 Gb/s aggregation capabilities eliminate stranded capacity by efficiently filling the available 100 Gb/s bandwidth.

The MPX-9105 uses DP-QPSK modulation with coherent detection and is fully compatible with existing 100- or 50-GHz spaced 10-Gb/s ROADMs or fixed OADM networks.

Specifications

Interfaces	10 SFP+ 1 CFP 1 Integrated line	Data range of 8.5 Gb/s to 11.3 Gb/s Data rate range of 40 Gb/s to 112 Gb/s Tunable line (50/100 GHz)
Client Protocols – SFP+	Ethernet SONET/SDH Storage G.709 OTN	10 GbE WAN/LAN PHY OC-192/STM-64 8G/10G Fibre Channel OTU2, OTU2e
Client Protocols – CFP	Ethernet G.709 OTN	40 GbE (single or dual), 100GbE OTU3 (single or dual), OTU4
Line Protocol	G.709 OTN FEC	OTU4 HGFECC
OSNR Sensitivity	dB	15
Dimensions (RU)	Height in rack units	1
Dimensions (H x W x D)	cm (in.)	4.4 x 44 x 46.5 cm (1.72 x 17.33 x 18.32 in.)
Power (Supply)	-48 VDC	Redundant A/B feeds
Operating temperature	°C (°F)	-5 to +55°C / +23 to +131°F
Part number	1017-5005	MPX-9105 Flexible Metro 100G Platform

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