

# Optical Metro 5040/5080 platforms



**The Optical Metro (OM) 5040 and 5080** are highly-flexible CWDM/DWDM access units that offer the broadest range of broadband services on a compact 1U platform. They extend their value by delivering a small footprint, low power consumption and a flexible on-ramp to a WDM network. The Optical Metro 5040 and 5080 are typically deployed as Customer Located Equipment (CLE) to support Data Center extension, business services and DSLAM backhaul, access network fiber relief and managed wavelength service delivery over converged CWDM and/or DWDM Wide Area Networks (WANs). The Optical Metro 5040/5080 simplifies multi-protocol service delivery by consolidating complex overlay networks, while increasing network efficiency and lowering Total Cost of Ownership (TCO).

The Optical Metro 5040 and Optical Metro 5080 platforms are equipped with up to four or eight high-speed client service channels respectively, whereby each client channel supports a bit rate range from 125 Mbps to 4.25 Gbps. Both

the client side and line side interfaces are Small Form-factor Pluggable (SFP) optical transceivers for a "pay-as-you-grow" service architecture and are fully replaceable for simplified maintenance. Each service port is independently provisioned, managed and monitored using the web-based management interface.

In either transponder (Figure 1) and/or regenerator (Figure 2) setup modes, both the Optical Metro 5040 and 5080 have the flexibility to support point-to-point, linear ADM, hub and spoke, and ring topologies with multiple protection schemes. The Optical Metro 5040/5080 platforms are designed to meet the service provider and enterprise requirements of today, with the agility to scale as service requirements evolve.

## New Release 2.0 improves price, footprint and functionality

Release 2.0 of the Optical Metro 5040/5080, introduced in Q3 2009, offers a software upgrade for the Advanced hardware platform that supports 4 X

## Features & Benefits

- 4 x GE muxing into 4Gbps line side wavelength for higher density and lower costs (see Figure 5)
- Inband communications remove OSC wavelength costs and simplify remote NE management
- DS3 WAN SFP solution for GE client protocol
- Single fiber client side SFPs for GE extension to customer sites over single fibers to reduce fiber exhaust
- 4-channel and 8-channel CWDM OMX with integrated 1310 nm OSC port
- CWDM or DWDM transport and aggregation of storage, data and voice applications
- Pay-as-you-grow architecture for up to 8 WDM channels over a single fiber pair
- Pluggable SFP interface for both service and WDM channels, allowing maximum flexibility as well as ease of maintenance and operation
- Multi-protocol support
- 1G/2G/4G FC and FICON, ESCON, Fast Ethernet, GbE, STM-1/OC-3, STM-4/OC-12 and STM-16/OC-48
- Client bit rate range from 125 Mbps to 4.25 Gbps at 850,1300 or 1500nm

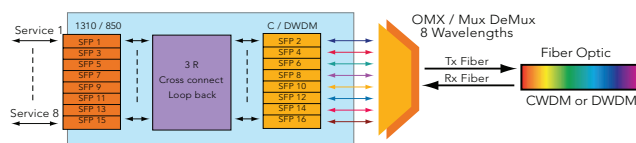


Figure 1. Optical Metro 5040/5080 — 8-channel CWDM/DWDM Transponder

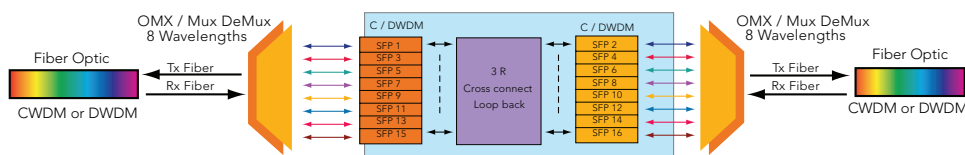


Figure 2. Optical Metro 5040/5080 — 8-channel CWDM/DWDM Regenerator