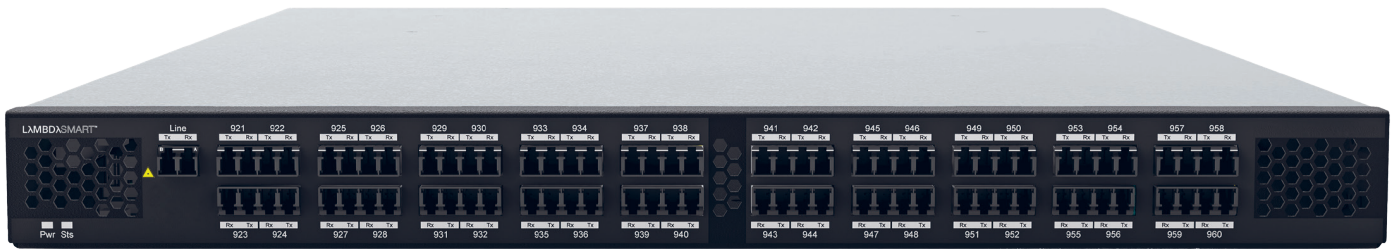


Multi-format 40 channel DWDM open line system (0–80 km)

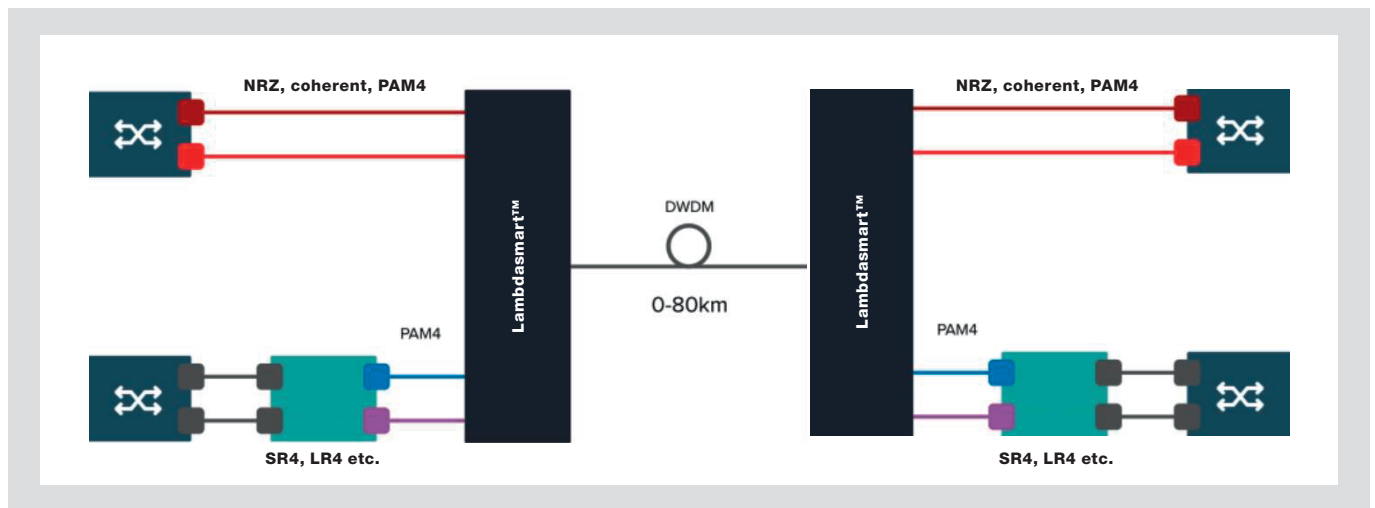


An open line platform designed for DCI

Lambdasmart™ is a true open line DWDM platform designed specifically for modern DCI. Lambdasmart™ has the form factor and usability of a passive multiplexer. It amplifies the signals for longer distances and can handle higher data rate protocols. Lambdasmart™ provides everything required for an open line system and is simple, reliable and open for all DCI protocol types. Lambdasmart™ offers an unparalleled level of plug and play simplicity regardless of traffic type and network application.

Lambdasmart™ in short

- 40 channels active DWDM multiplexer for open line systems
- Accepts any DWDM signal format: PAM4 (40G/100G), NRZ(1-32G), Coherent (QPSK/8QAM/16QAM) Up to 80 km of reach for PAM4 modulated signal. Extended reach for other formats.
- Unprecedented level of cost efficiency and ROI for 100G Data Center Interconnect (DCI)
- High speed multi-protocol capability
- Industry defining 1U form factor
- Automated configuration and zero touch provisioning - behaves like a passive multiplexer
- Automatic fiber distance measurement and dispersion compensation



Automated configuration, zero-touch provisioning and smart management

Lambdasmart™ brings an unprecedented level of plug and play simplicity to DWDM DCI networking, being designed with ease of use in mind. Power levels are automatically regulated and a visual confirmation via LEDs shows that channel and line are set up correctly. Automated configuration and zero-touch provisioning mean that installation and adding new connections can be done in minutes also by staff with only a basic knowledge of optical networking.

Technical Data

- Product configuration
 - 40 channel DWDM open line system for metro DWDM, DCI and dark fiber connectivity.
- Supported encodings:
 - PAM4 (40G/100G) (Maximum 20 x PAM4 signals)
 - NRZ (1-32G)
 - Coherent (QPSK/8QAM/16QAM)
- Supported protocols:
 - 1/10/40/100/200/400G Ethernet
 - 1/2/4/8/16G/32G Fiber Channel
 - contact Deltanet for more informations
- Front side connections

All ports are of LC connector type

 - 40 x DWDM client channels D921 to D960
 - 1 x Line input/output port
- Visual indicators
 - Status LED Power & Alarm status
 - Client LED: 40 x individual client Tx/Rx
 - Line LED: Line Tx/Rx
- Rear side connections
 - Management and console ports
 - 4 x RJ45 Management ports 10/100/1000 Base-T
 - 1 x SFP Management port 1000 Base-X
 - 1 x RS-232 serial port
 - 1 x RJ-45 Local craft 10/100/1000 Base-T
 - › 2 x Power supplies: Single/dual feeding. Hot swappable.
 - › 1 x Fan unit: Redundant plugin. Hot swappable.
- Management protocols
 - SSH/CLI, SNMP, NTP, TFTP, TACACS+, Radius, Syslog
 - NetConf
- Software upgrades
 - Traffic hitless software upgrades
- Dimensions
 - Size (WxDxH)
 - › 440mm x 510mm x 1RU
 - › 17.3" x 20" x 1RU
 - › Weight: 13 Kg / 28.7 lbs.
- Eye Safety
 - Laser safety class 1M
- Power Consumption
 - Typical consumption at 220VAC:
Normal operation: 45W
 - Max during power up: 65W
 - › AC Fuse: 100–127 VAC (3A)
 - › 200–240 VAC (1.5A)
 - › DC Fuse: –40 to –72 VDC (7A)
- Environmental
 - Operating temp: 0° C to +45° C
 - Cooling: Front to back
 - Humidity: 5 % to 85 %
 - Altitude: 3000 m (10.000 ft.)
- Optical Specification
 - Fiber distance: 0–80 km
 - Fiber link loss: 0–18 dB
 - Fiber types: G.652 (SMF-28)