

Data Center Interconnect Amplification System

DCI-Eco Series

16 Channel Multi-Format DCI | 4-8 Channel PAM4 DCI

INTEGRATED SOLUTION WITH
MULTIPLEXING/DEMULTIPLEXING,
AMPLIFICATION,
DISPERSION COMPENSATION,
WAVELENGTH GROOMING
& REMOTE FIBER MANAGEMENT



Easily upgrade DCI networks to meet growing capacity requirements with MPBC's DCI-Eco Series line systems. These flexible, energy efficient and affordable single box solutions allow for transmission of up to 16 DWDM channels on a single fiber over distances up to 100km.

The Zero Touch Provisioning (ZTP) feature simplifies installation and maintenance by automatically adjusting all operating parameters at turn-up and self-adjusting during operation to ensure continuous optimized transmission performance.

With its ease of use, low latency and flexibility, the DCI-Eco is the natural choice for simple and cost effective DCI network upgrades.

Features

- Zero-Touch Provisioning for easy installation and maintenance
- Tunable dispersion compensation module for PAM4 signals
- Link distance measurement and fault location with OTDR
- Remote monitoring of far end unit
- Performance Monitoring to track key parameters on 15 min/daily/weekly basis
- CLI, Web GUI interface, SNMP v2/v3
- Single shelf solution

Applications

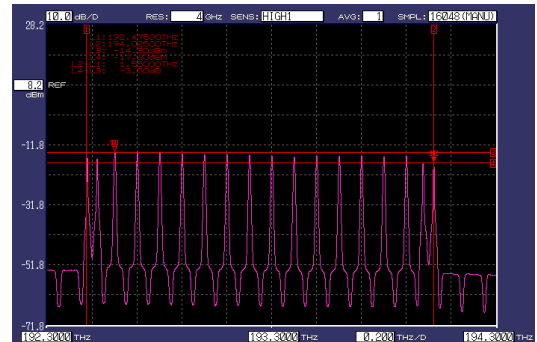
- Interconnect Data Centers
- Scale data center bandwidth as needed

16 Channel Multi Format DCI-Eco Line System

Multi-protocol capability from a single unit on a single fiber



- Support legacy 10G lambdas investments as well as providing seamless upgrade path from 10G to 100G and 400G ready
- Supports multiple DWDM modulation formats including:
 - Legacy 10G NRZ
 - PAM-4 (40G/100G)
 - Coherent (QPSK/8QAM/16QAM) 100G
- Zero-touch provisioning (ZTP)



Fully-populated DCI-Eco 16 Channel Multi-Format unit

MPBC's 16-Channel DCI-Eco Optical Line System (OLS) is a complete DWDM line system for easy upgrades of existing DCI networks to meet growing capacity requirements. This flexible, energy efficient and affordable single box solution allows for transmission of up to 16 multiprotocol DWDM channels on a single fiber over distances up to 80 km. Supported modulation formats include PAM4 100G, legacy 10G/40G NRZ and Coherent 100G.

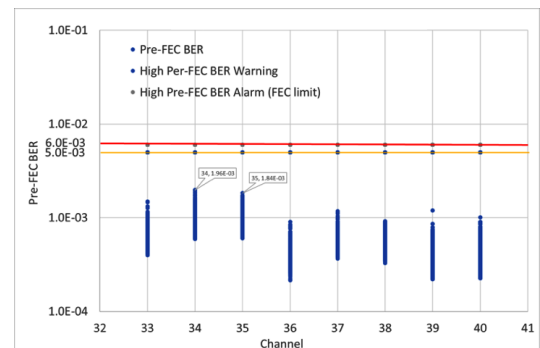
The Zero Touch Provisioning (ZTP) feature simplifies installation and maintenance by automatically adjusting all operating parameters at turn-up and self-adjusting during operation to ensure continuous optimized transmission performance.

4 or 8 Channel PAM-4 DCI-Eco Line System

Cost-effective transport solution for industry leading dual carrier PAM4 100G channels

MPBC's 4-8 Channel DCI-Eco Optical Line System (OLS) is a complete DWDM line system for data center interconnect applications. It provides all of the optical grooming necessary for transmission of up to 8 DWDM dual carrier PAM4 channels, covering the range of 0 km to 100 km (0 dB to 20 dB) of SMF while maintaining the simplicity of zero-touch provisioning. The unit has been optimized for ease of data center operations based on the contributions of world-leading data center operators and successfully tested with Inphi's ColorZ™ PAM4 QSFP modules.

- 1U single box solution with AC power supply
- Supports up to 8 PAM-4 QSFP28 100G channels
- Flexible configuration options
- Low cost of ownership



Long-term interoperability test results for an 8 Channel system with ~75km SMF-28 link

This is a summary brochure. Contact us for more detailed information on specific units. Specifications subject to change without notice.