# Brocade and Omnitron Systems Solutions

## Expand Fiber Capacity with CWDM/DWDM Multiplexers and Transponders

- Transport up to 16 CWDM or 24 DWDM wavelengths across a fiber optic link

- Protocol and rate transparent with up to 10G per channel

- Passive optical devices that require no external power to reduce power and cooling costs

- High-density, compact form factor to save valuable rack space

- Flexible and scalable architecture that supports a wide variety of optical products

Omnitron's CWDM and DWDM optical multiplexers and transponders are compatible with Brocade Fibre Channel and Ethernet Access switches. Ideal for Data Center, Campus Network and Carrier Ethernet applications where fiber is limited, Omnitron's optical products increase capacity of existing fiber infrastructure, saving customers from having to install more fiber, or lease additional fiber from a Service Provider.

Omnitron offers an extensive portfolio of CWDM and DWDM Multiplexers, De-Multiplexers, Optical Add/Drop (OADM) Multiplexers, transceivers and transponders for single-mode and multimode fiber.
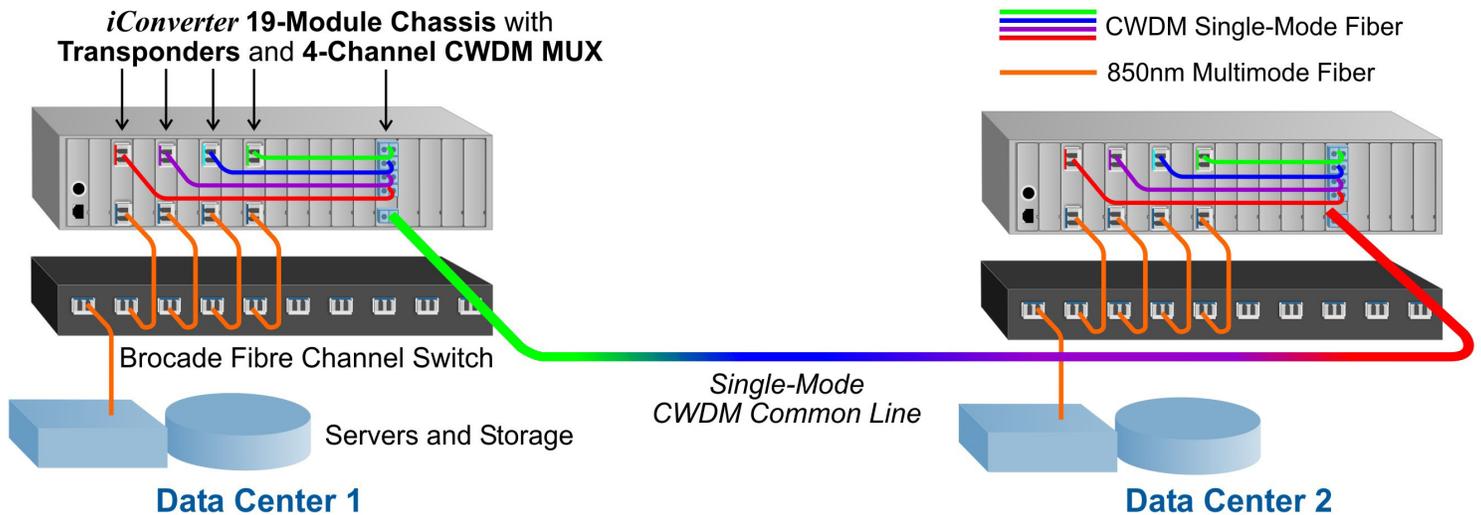
Omnitron's passive optical solutions allow Brocade customers to significantly reduce CapEx and OpEx as compared to active WDM platforms.



**OmniLight™**
CWDM and DWDM LGX Multiplexers



**iConverter®**
CWDM Multiplexers and Transponders

OmniLight™ passive CWDM and DWDM multiplexers and LGX® chassis provide a scalable and high-density solution for distributing wavelength services. OmniLight modules can be installed in a 14-Module LGX Chassis that supports 14 full-size LGX modules or 28 half-size LGX modules, or a 3-Module Rack-Mount Shelf that supports 3 full-size LGX modules or 6 half-size LGX modules.

iConverter® optical CWDM multiplexers are part of the iConverter Multi-Service Platform of Network Interface Devices, fiber transponders and media converters. iConverter CWDM multiplexers can be installed in a variety of chassis with other iConverter modules to deliver different services across a CWDM common link. iConverter chassis support up to 38 CWDM modules and 684 channel ports.

# Data Center Application Example

**iConverter 19-Module Chassis** with
**Transponders** and **4-Channel CWDM MUX**

CWDM Single-Mode Fiber

850nm Multimode Fiber

Brocade Fibre Channel Switch

Servers and Storage

**Data Center 1**

*Single-Mode
CWDM Common Line*

**Data Center 2**

In this application example, iConverter Transponders and CWDM Multiplexers are deployed to connect Brocade Fibre Channel switches in two different data centers, and provide high-capacity and high-speed connectivity to offsite Storage Area Networks.

iConverter Transponders are a simple and cost-effective method to convert standard 850nm multimode fiber to single-mode fiber with CWDM wavelengths, and provide connectivity to a CWDM multiplexer.

Multimode fiber patch cables (shown in orange) connect the Brocade Fibre Channel switch to iConverter Transponders installed in a high-density 19-Module Chassis. Each patch cable transports up to 10G Fibre Channel.

Four transponders convert the 850 multi-mode fiber to single-mode fiber with CWDM wavelengths that connect to the corresponding channel ports on the iConverter CWDM multiplexer with fiber patch cables (shown in colors to represent the CWDM wavelengths).

The CWDM multiplexer transports four Fibre Channels with different CWDM wavelengths over the CWDM Common Fiber Line to the offsite SAN.

iConverter Transponders are protocol transparent and transport Ethernet, Fibre Channel and a variety of other network protocols up to 10 Gigabit.

iConverter CWDM Multiplexers transport up to 16 CWDM channels, and a total bandwidth of 160 Gigabits.

## OST Omnitron Systems

## BROCADE®

Omnitron Systems designs and manufactures fiber connectivity products that extend network distances, enable copper and fiber network integration, and expand the capacity of fiber infrastructure. Omnitron's media converters, CWDM/DWDM multiplexers and T1 multiplexers are deployed in data center, enterprise, government, and telecom networks worldwide.

Learn more at www.omnitron-systems.com

Brocade networking solutions help organizations transition smoothly to a world where applications and information reside anywhere. Innovative Ethernet and storage networking solutions for data center, campus and service provider networks help reduce complexity and cost while enabling virtualization and cloud computing to increase business agility.

Learn more at www.brocade.com