

Overview

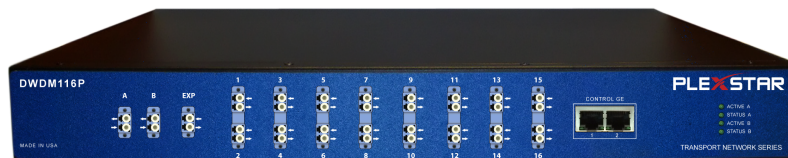
Plexstar DWDM116P-40G is a 16-channel duplex DWDM multiplexing device. It combines and transmits 16 signals in different colors simultaneously on the same fiber. In effect, one fiber is transformed into 16 virtual fibers. Each virtual fiber can transmit different protocols with different bit-rate traffic without interfering with other channels.

Plexstar DWDM product functions:

- Receive data in different formats: Receive client data in the form of 10G/40G Ethernet, STM64, STM256, 10G Fiber Channel, etc. Note: Plexstar SFP+ and XFP transponders generate stable and specific laser those carry modulated digital data.
- Combine/separate different colors: Plexstar DWDM116P-40G combines 16 colors and transmits those through a common fiber. At the receiving end it separates 16 colors.
- Optical amplification: Plexstar EDFA40 optically amplifies all colors together without optical-electrical-optical conversion. These are used in repeating stations.
- Deliver data: Plexstar TP10G can be used as repeater or can be placed at the client side functioning as transponder instead of SFP+ and XFP transponders.

Model:

- DWDM116 - 16 channels
- DWDM116P - 16 channels, MSP protected (1+1)
- WDM116B-E & WDM116-W: Bidirectional transmission over a single fiber



Specifications

Product Highlights:

- Special DWDM transponder SFPs.
- Transmission up to 80km in a single hop.
- Low insertion loss and high isolation.
- Any data rate up to 40G.
- Any protocol (full protocol transparency).
- SDH STM-1, STM-4, STM-16, STM-64, STM-256.
- Mux/Demux over a pair of fibers.
- High reliability.
- RoHS compliant.

Power:

- Input power: 110/220V AC or -48V DC.
- Power consumption: 8 Watts.
- Dual power input.

Physical Dimension:

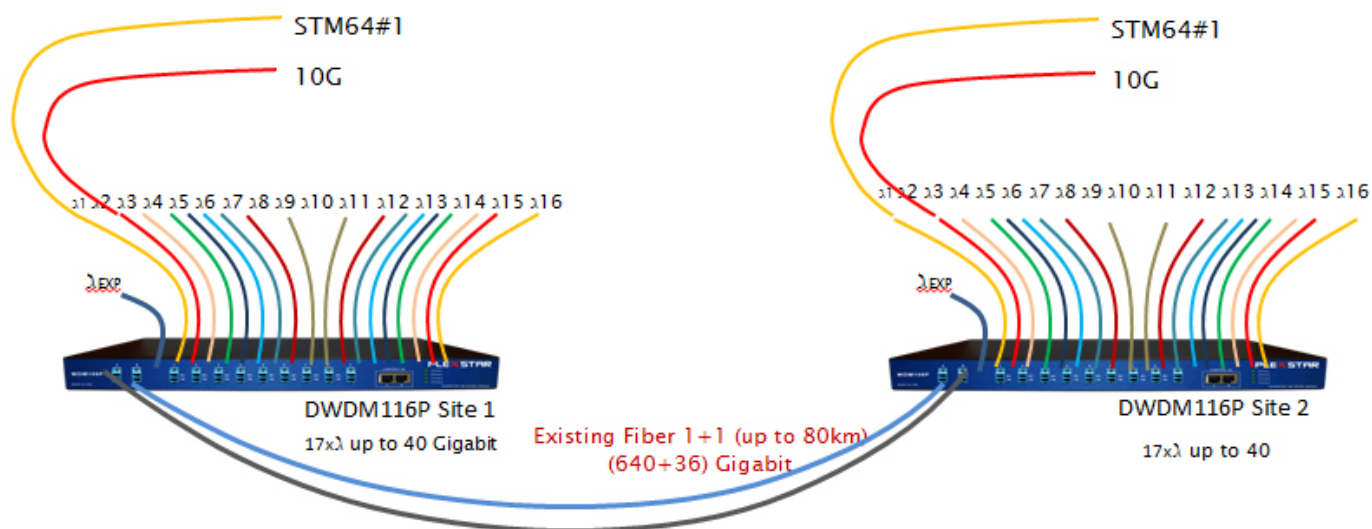
- Size: 19" X 11" X 1.75" (1U).
- Weight: 7.5 pounds.

Benefits

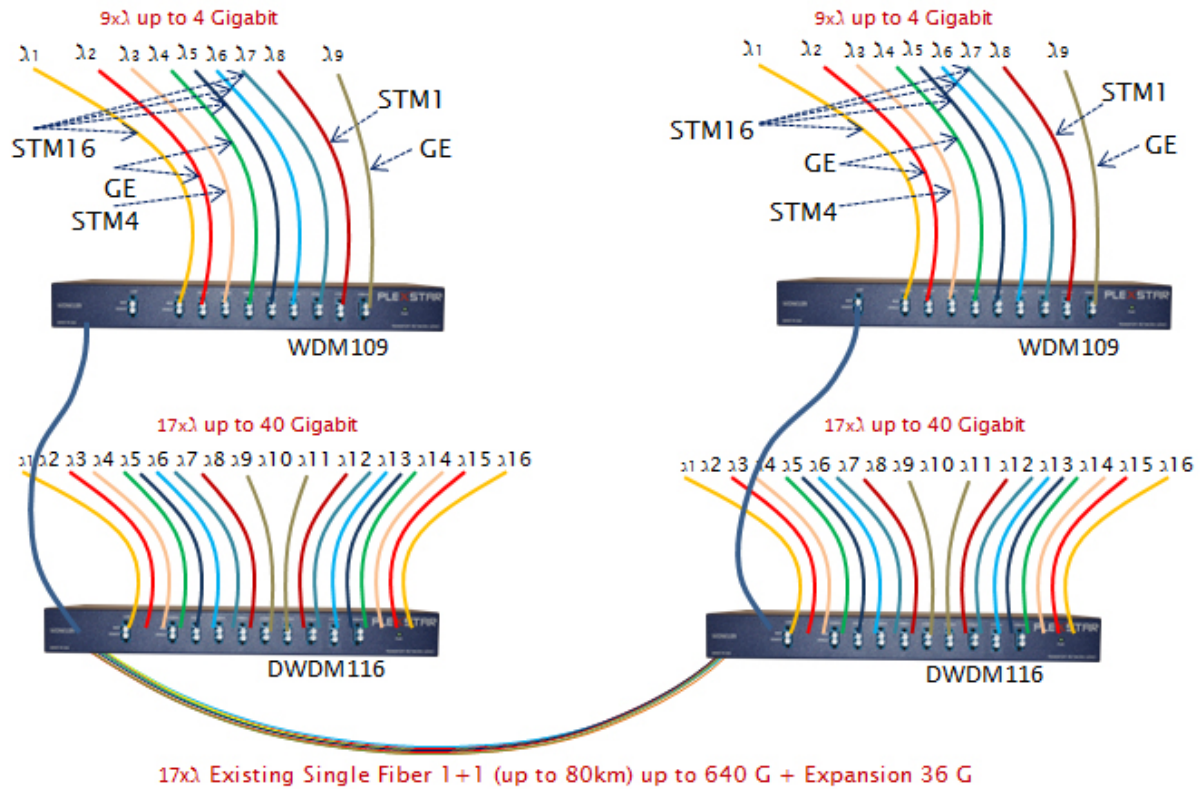
- Compact box size.
- Operating temperature 0°C to 70°C.
- Can operate on room temperature. No extra cooling required.
- Increases capacity of a fiber-pair by using multiple DWDM wavelengths.
- Low capex bandwidth upgrade.

Applications

DWDM116 Point to Point Implementation

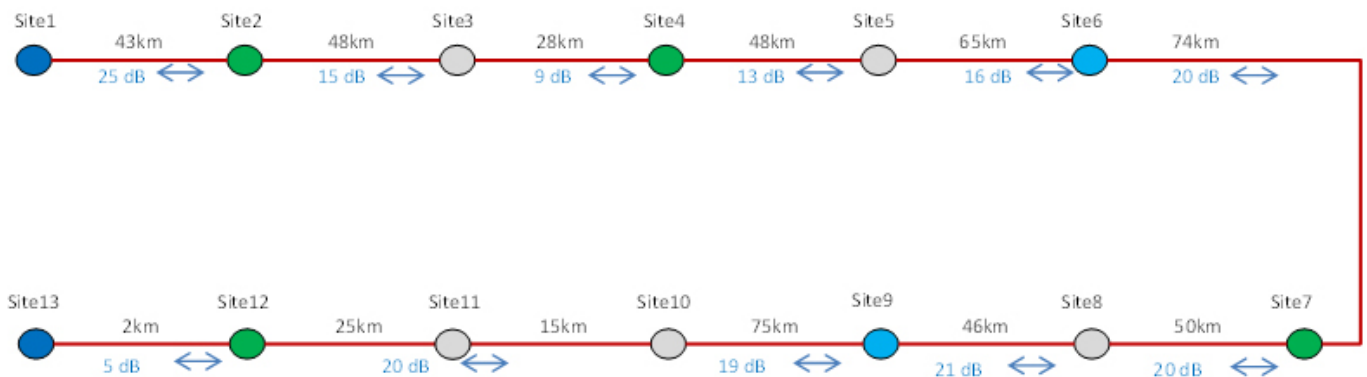


DWDM116 interworking with WDM109

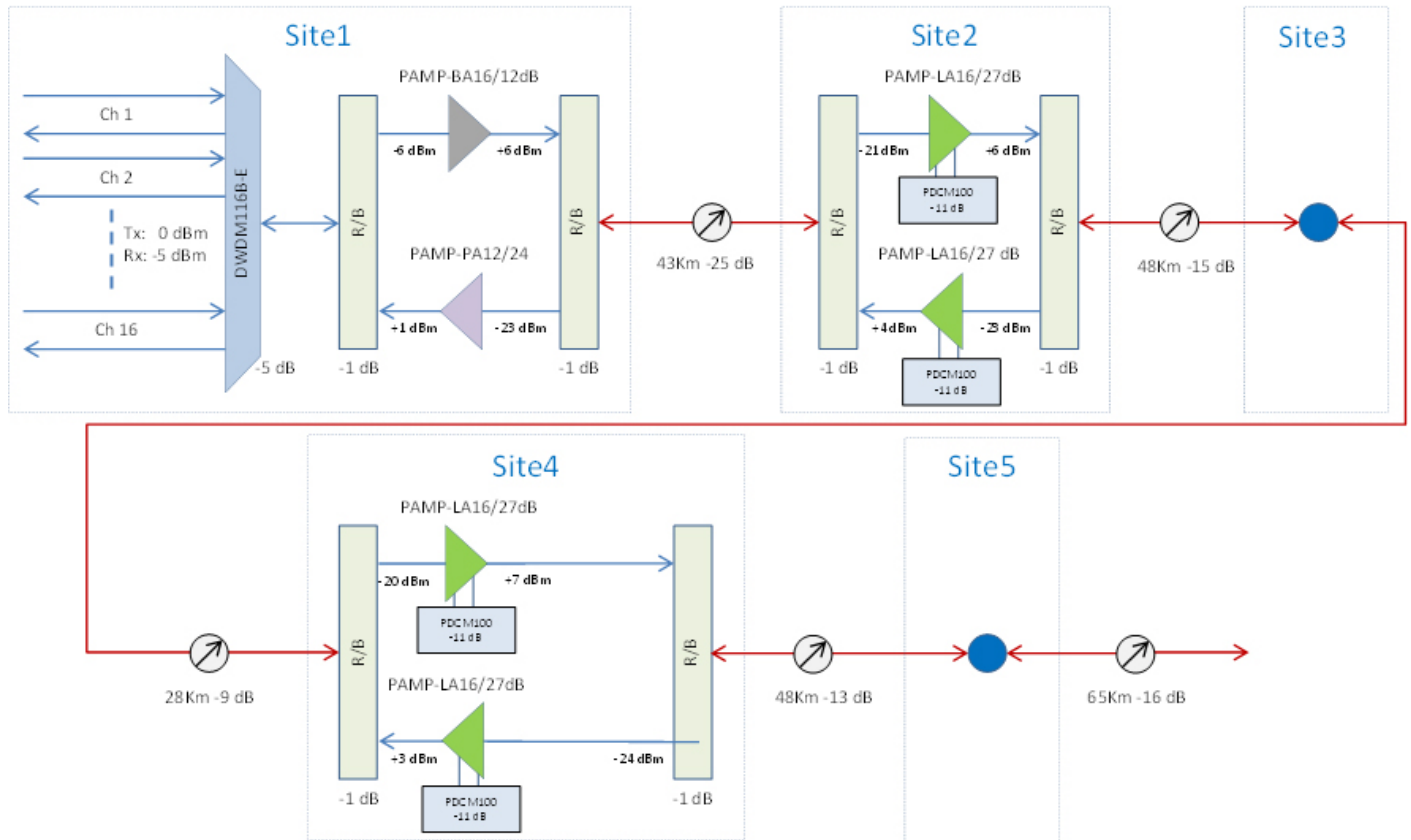


DWDM Transmission Example 1/4

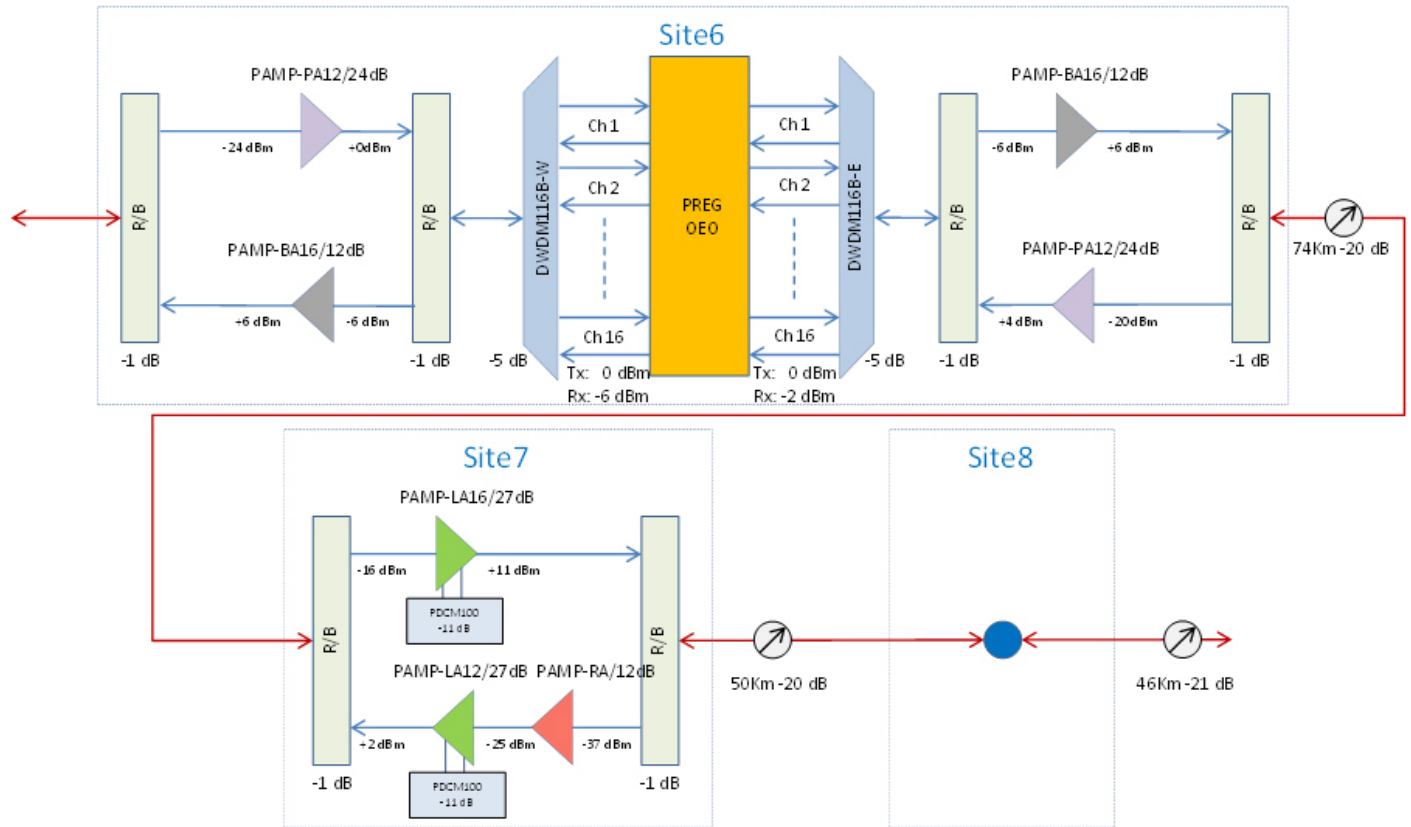
16 x 10G Long Haul Bi-directional Transmission on a Single Fiber



DWDM Transmission Example 2/4 16 x 10G Long Haul Bi-directional Transmission on a Single Fiber



DWDM Transmission Example 3/4 16 x 10G Long Haul Bi-directional Transmission on a Single Fiber



DWDM Transmission Example 4/4 16 x 10G Long Haul Bi-directional Transmission on a Single Fiber

