## Overview

Plexstar WDM109 is 9 channel CWDM multiplexer and de-multiplexer in a single box. Each channel can carry up to 4G protocol independent traffic. It is mainly used to increase fiber capacity from a single fiber to 9 virtual fibers. WDM109 comes in three different models. One is an active device and provides 1+1 Multiplex Service Protection (MSP) between two points. Other two are passive devices and operates over two fibers or a single bi-directional fiber.

Features:

- Supports up to 9 lambdas
- P2P maximum capacity: 36G
- P2P Automatic Protection Switching (APS): Available: 1+1 MSP
- Distance up to 120km
  - Available transponder types: 15 km, 20 km, 40 km, 60 km, 80 km, 120 km
- 1.25G for Gigabit Ethernet transport
- 1.25G to 4G for POS transport
- 155M for STM1
- 622M for STM4
- 2.5G for STM16
- 4G for Fiber Channel
- Inter-operability
  - Alcatel, Cisco, Juniper, Huawei, ZTE, Plexstar and so on

Model:

- WDM109 - 9 channels
- WDM109P - 9 channels, MSP protected (1+1)
- WDM109B-E & WDM109-W: Bidirectional transmission over a single fiber
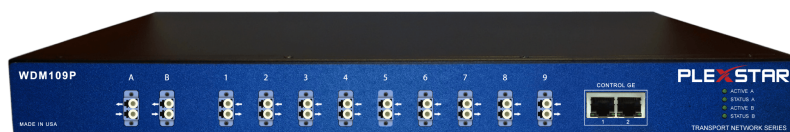
Specifications

Power:

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

Physical Dimension:

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

PLEXSTAR Inc.

209 SH 121 Bypass, Suite-35, Lewisville, TX 75067, USA
Tel: +1 (972) 318-2922, (972) 318-2900, Email: info@plexstar.com, Web: www.plexstar.com

Benefits

- Compact 1U chassis.
- Operating temperature 0ºC to 70ºC.
- Can operate on room temperature. No extra cooling required.
- No cross talks between lambdas.

Applications

Plexstar WDM109 in a Point to Point Implementation

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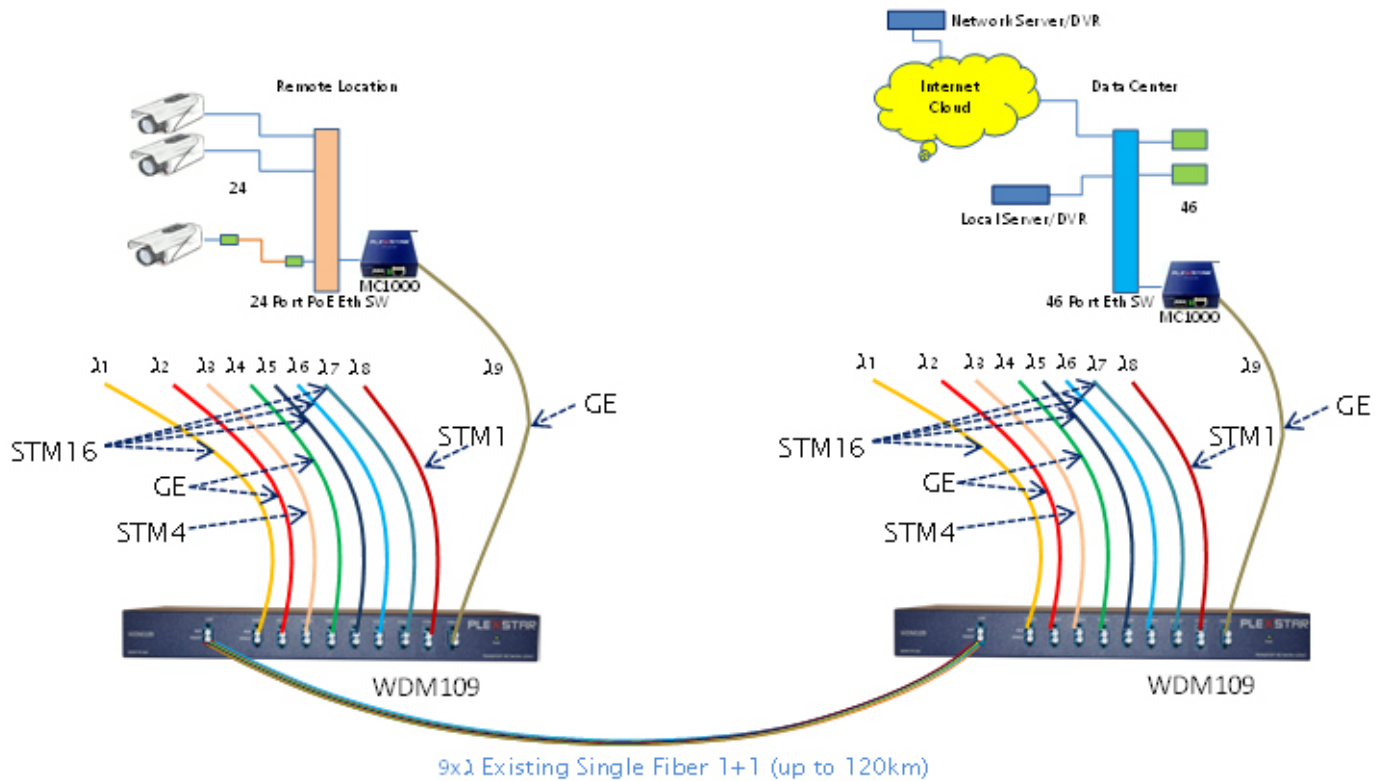
Plexstar WDM109B-E and WDM109B-W

TX 1270
RX 1290

TX 1310
RX 1330

TX 1350
RX 1370

TX 1390
RX 1410

TX 1430
RX 1450

TX 1470
RX 1490

TX 1510
RX 1530

TX 1550
RX 1570

TX 1590
RX 1610

Single Bi-Directional Fiber 120km

Multiplexer (MUX) and de-multiplexer (DEMUX) are combined together into a single equipment for bi-directional data transmission over one fiber.

1270 RX
1290 TX

1310 RX
1330 TX

1350 RX
1370 TX

1390 RX
1410 TX

1430 RX
1450 TX

1470 RX
1490 TX

1510 RX
1530 TX

1550 RX
1570 TX

1590 RX
1610 TX

WDM109B-E
(EAST)

WDM109B-W
(EAST)

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