



# Mux/Demux Devices

## DarkStar® DMD-P Series



The DMD-P is XKL's DarkStar Mux/Demux product. As with the rest of the XKL product line, the DMD-P is based on XKL's DarkStar architecture, the foundation for addressing today's IT challenges and scalable growth.

The DMD-P is a passive device (i.e., not requiring power or cooling) that aggregates and provides monitoring capabilities for a mix of 1G through 400G technologies, resulting in greater control and scalability.

The DMD-P provides a variety of filter options including 48-channel or 96-channel Mux/Demux with 4-band or 6-band filter, all of which allow for point-to-point or east/west configurations.

Offering the same optical filters as the DMD-A but without the DMD-A's amplification capabilities, the DMD-P device can serve as an integral part of an XKL network solution or can inter-operate with any optical networking equipment that utilize the standard ITU grid with 50GHz or 100GHz channel spacing.

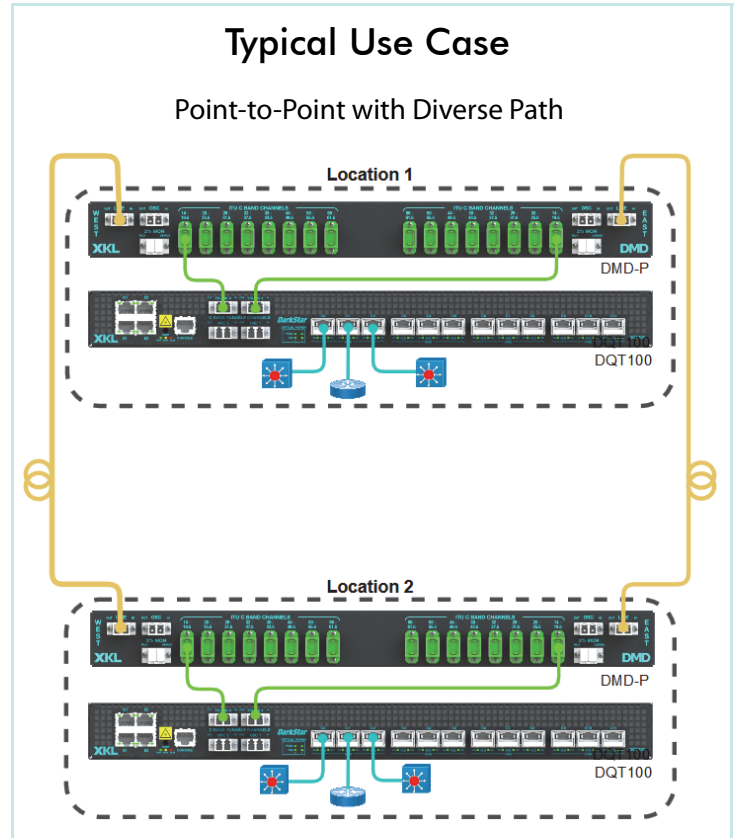
The DMD-P requires only 1 rack unit (1U) of space. Easy to integrate and operate, there is no need for specialized optical engineers to ensure network optimization.

### More about this product...

#### Device Architecture:

- Fully integrated optical components including DWDM Mux/Demux filters and channel monitoring

Also see "Technical Specifications" on back.



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## Technical Specifications

### Supported Topologies

Point-to-Point, Ring, Linear, Mesh

### Capacity

#### DMD-P (single)

One 48 or 96 channel filter

One 4-band or 6-band filter

#### DMD-P (dual)

Two 48 or 96 channel filters

Two 4-band or 6-band filters

### Supported Fiber Types

G.652, G.654, G.655 (others supported on demand)

### Product Configurations

48 or 96 Channel filters; 4-Band or 6-Band filters

### Optical Components/Characteristics

OSC passband: 1503.5nm-1516.5nm

Line monitoring port: 2% tap

#### 96 channel filter:

ITU channels 14-61.5, 1566.31nm - 1528.38nm

50GHz channel spacing

#### 48 channel filter:

ITU channels 14-61, 1566.31nm - 1528.77nm

100GHz channel spacing

#### 4-band filter:

192.45 THz ± 463.75 GHz

193.45 THz ± 463.75 GHz

194.45 THz ± 463.75 GHz

195.45 THz ± 463.75 GHz

#### 6-band filter:

191.45 THz ± 463.75 GHz

192.45 THz ± 463.75 GHz

193.45 THz ± 463.75 GHz

194.45 THz ± 463.75 GHz

195.45 THz ± 463.75 GHz

196.45 THz ± 463.75 GHz

#### Optical loss:

6.5dB - 96 channel Mux or Demux

5.0dB - 48 channel Mux or Demux

0.5dB - Optical Service Channel (OSC)

### Power and Cooling

No power or cooling requirements (passive system)

### Physical Dimensions

IEC 60297-3 Compliant

**Height:** 1U (1.75"/44.5mm)

#### Width/Depth:

16.9"/12.5"

429.3mm/317.5mm

**Weight, minimum:** 10lbs/4.5kg (fully configured)

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