

## Application Note | 40 Channel, PTP | DWDM

### Situation

Between two locations (locations A and Z) you need to add multiple new services between the two but don't have any free fiber. Using the 40Ch DWDM Multiplexer/Demultiplexer (MUX/DMX) will allow you greatly increase the capacity of the fiber by 40 to 1. Refer to Figure 1 below for a logical diagram of this application.

### Solution

Using 40Ch DWDM filters will provide a passive, non-powered, low loss solution to add the needed capacity along the span. Using industry standard, 100Ghz spaced, channels this solution is ideal for a high capacity upgrade for your fiber network. When combined with readily available tunable optics this solution becomes a very versatile, future ready solution to fiber capacity concerns of today.

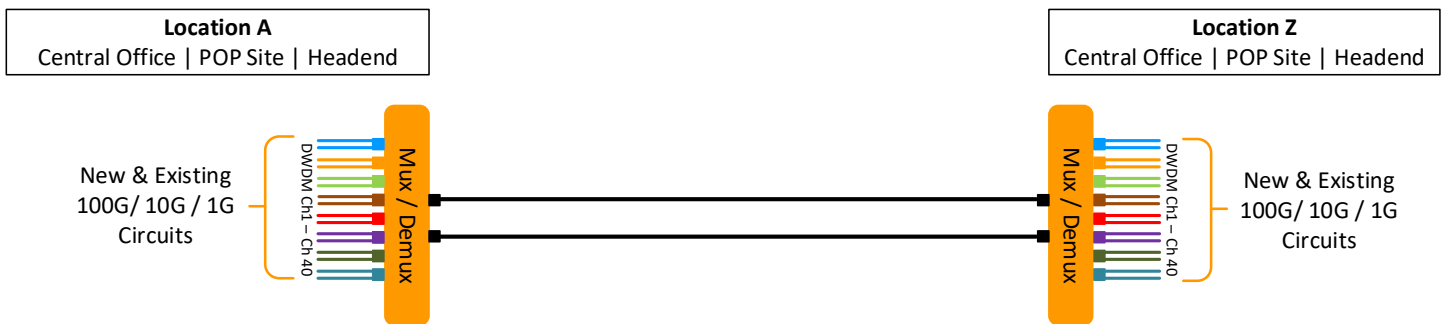


Figure 1: Linear PTP Diagram, 40 Channel DWDM

**Part Number:** PLO-11DG-AAAA-LC

**Description:** 1RU, 19-23 Inch, 40 Channel DWDM Mux-Demux, Gaussian, ITU CH 20-59, 1561.42 - 1530.33, 2% Monitor, LC-UPC

### Features

- PTP: 40 DWDM Channels
- Monitor Port: 2%
- Channels: ITU Ch 20-59
- Technology: DWDM
- Configuration: MUX/DMX
- Form Factor: 1RU Rackmount
- Temp Range: C-Temp
- **Low Loss:** DWDM Channels: <4.0db
- **Quick to Deploy:** Typically, in Minutes
- **Versatile:** Uses ITU Ch20 to Ch 59, 1G to 100G per Channel

