

Application Note | Point-to-Point | CWDM

Situation

Between two locations (locations A and Z) you need to add multiple new 1Gig, 10Gig or 100G services, but you lack additional fiber capacity. Refer to Figure 1 below for a logical diagram of this application.

Solution

Using the 5Ch CWDM +1310nm & 1550nm filters will provide a passive, non-powered, low loss option to add required capacity along the span. This solution includes five CWDM wavelengths, one 1310nm wavelength and one 1550nm wavelength for a total of seven “point to point” circuits. For maximum capacity, the ideal deployment strategy is to utilize CWDM wavelengths for 1Gig and 10Gig services and the 1310nm and 1550nm wavelengths for 100Gig services.

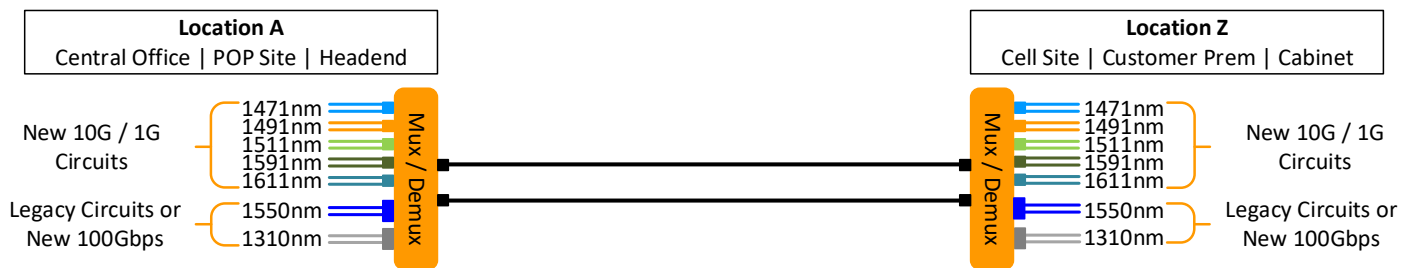


Figure 1: Logical “Point to Point” Diagram, 5Ch CWDM +1310nm & 1550nm

Part Number: PLO-L1CT-C7C1-LC

Description: LGX, 7 Channel, CWDM Mux-Demux, 1471-1491-1511, 1591-1611, 1310nm, 1550nm, 2% Monitor, LC-UPC

Features

- 5Ch CWDM + 1310nm & 1550nm
- 7 “Point to Point” Circuits
- 1Gig, 10Gig, 100Gig
- Configuration: Mux/Demux
- Form Factor: LGX
- Monitor Port: 2%
- Temp Range: I-Temp
- **Low Loss:** 1310nm < 1.5db, 1550nm < 1.8db, COM-CH < 2.7db
- **Quick to Deploy:** Typically, in Minutes
- **Versatile:** 7 Circuits on Two Fibers

