

Application Note | Single Service, OADM | DWDM

Situation

Between two locations (A and Z), that are equipped with a 40 channel DWDM system, you need to provide service to mid-span location X. You need to drop a single 1G/10G access service and connect it to both locations A & Z for a protected SLA service. Refer to Figure 1 below for a logical diagram of this application.

Solution

Using a single channel DWDM Optical Add Drop Multiplexer (OADM) will provide a passive, non-powered, low loss solution to deliver the SLA service. This OADM can be used to access a single DWDM channel along the route while passing the remaining 39 channels.

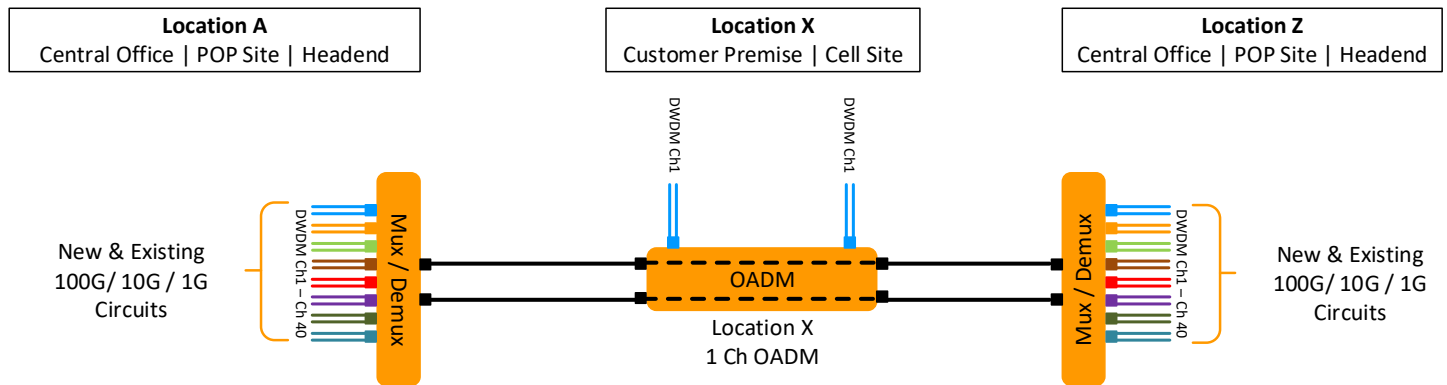


Figure 1: Linear OADM Diagram, 1Ch DWDM

Part Number: PLO-L3DT-A1XX-LC

Description: LGX, 1 Channel DWDM OADM, ITU CXX (Channels 20-59), 2% Monitor, LC-UPC

Features

- Add/Drop: 1 DWDM Channel
- Monitor Port: 2%
- 40 Variants: ITU Ch 20-59
- Technology: DWDM
- Configuration: OADM
- Form Factor: LGX
- Temp Range: I-Temp
- **Low Loss:** Add/Drop < 1.5db, Express < 2.2db
- **Quick to Deploy:** Typically, in Minutes
- **Versatile:** Access 1 circuit where you need it





| Ordering Information | |
|---|--|
| Part Number | Description |
| PLO-L3DT-A101-LC | LGX, 1 Channel DWDM OADM, ITU C20, 1561.42, 2% Monitor, LC-UPC |
| PLO-L3DT-A102-LC | LGX, 1 Channel DWDM OADM, ITU C21, 1560.61, 2% Monitor, LC-UPC |
| PLO-L3DT-A103-LC | LGX, 1 Channel DWDM OADM, ITU C22, 1559.79, 2% Monitor, LC-UPC |
| PLO-L3DT-A104-LC | LGX, 1 Channel DWDM OADM, ITU C23, 1558.98, 2% Monitor, LC-UPC |
| PLO-L3DT-A105-LC | LGX, 1 Channel DWDM OADM, ITU C24, 1558.17, 2% Monitor, LC-UPC |
| PLO-L3DT-A106-LC | LGX, 1 Channel DWDM OADM, ITU C25, 1557.36, 2% Monitor, LC-UPC |
| PLO-L3DT-A107-LC | LGX, 1 Channel DWDM OADM, ITU C26, 1556.55, 2% Monitor, LC-UPC |
| PLO-L3DT-A108-LC | LGX, 1 Channel DWDM OADM, ITU C27, 1555.75, 2% Monitor, LC-UPC |
| PLO-L3DT-A109-LC | LGX, 1 Channel DWDM OADM, ITU C28, 1554.94, 2% Monitor, LC-UPC |
| PLO-L3DT-A110-LC | LGX, 1 Channel DWDM OADM, ITU C29, 1554.13, 2% Monitor, LC-UPC |
| PLO-L3DT-A111-LC | LGX, 1 Channel DWDM OADM, ITU C30, 1553.33, 2% Monitor, LC-UPC |
| PLO-L3DT-A112-LC | LGX, 1 Channel DWDM OADM, ITU C31, 1552.52, 2% Monitor, LC-UPC |
| PLO-L3DT-A113-LC | LGX, 1 Channel DWDM OADM, ITU C32, 1551.72, 2% Monitor, LC-UPC |
| PLO-L3DT-A114-LC | LGX, 1 Channel DWDM OADM, ITU-C33, 1550.92, 2% Monitor, LC-UPC |
| PLO-L3DT-A115-LC | LGX, 1 Channel DWDM OADM, ITU C34, 1550.12, 2% Monitor, LC-UPC |
| PLO-L3DT-A116-LC | LGX, 1 Channel DWDM OADM, ITU C35, 1549.32, 2% Monitor, LC-UPC |
| PLO-L3DT-A117-LC | LGX, 1 Channel DWDM OADM, ITU C36, 1548.51, 2% Monitor, LC-UPC |
| PLO-L3DT-A118-LC | LGX, 1 Channel DWDM OADM, ITU C37, 1547.72, 2% Monitor, LC-UPC |
| PLO-L3DT-A119-LC | LGX, 1 Channel DWDM OADM, ITU C38, 1546.92, 2% Monitor, LC-UPC |
| PLO-L3DT-A120-LC | LGX, 1 Channel DWDM OADM, ITU C39, 1546.12, 2% Monitor, LC-UPC |
| PLO-L3DT-A121-LC | LGX, 1 Channel DWDM OADM, ITU C40, 1545.32, 2% Monitor, LC-UPC |
| PLO-L3DT-A122-LC | LGX, 1 Channel DWDM OADM, ITU C41, 1544.53, 2% Monitor, LC-UPC |
| PLO-L3DT-A123-LC | LGX, 1 Channel DWDM OADM, ITU C42, 1543.73, 2% Monitor, LC-UPC |
| PLO-L3DT-A124-LC | LGX, 1 Channel DWDM OADM, ITU C43, 1542.94, 2% Monitor, LC-UPC |
| PLO-L3DT-A125-LC | LGX, 1 Channel DWDM OADM, ITU C44, 1542.14, 2% Monitor, LC-UPC |
| PLO-L3DT-A126-LC | LGX, 1 Channel DWDM OADM, ITU C45, 1541.35, 2% Monitor, LC-UPC |
| PLO-L3DT-A127-LC | LGX, 1 Channel DWDM OADM, ITU C46, 1540.56, 2% Monitor, LC-UPC |
| PLO-L3DT-A128-LC | LGX, 1 Channel DWDM OADM, ITU C47, 1539.77, 2% Monitor, LC-UPC |
| PLO-L3DT-A129-LC | LGX, 1 Channel DWDM OADM, ITU C48, 1538.98, 2% Monitor, LC-UPC |
| PLO-L3DT-A130-LC | LGX, 1 Channel DWDM OADM, ITU C49, 1538.19, 2% Monitor, LC-UPC |
| PLO-L3DT-A131-LC | LGX, 1 Channel DWDM OADM, ITU C50, 1537.40, 2% Monitor, LC-UPC |
| PLO-L3DT-A132-LC | LGX, 1 Channel DWDM OADM, ITU C51, 1536.61, 2% Monitor, LC-UPC |
| PLO-L3DT-A133-LC | LGX, 1 Channel DWDM OADM, ITU C52, 1535.82, 2% Monitor, LC-UPC |
| PLO-L3DT-A134-LC | LGX, 1 Channel DWDM OADM, ITU C53, 1535.04, 2% Monitor, LC-UPC |
| PLO-L3DT-A135-LC | LGX, 1 Channel DWDM OADM, ITU C54, 1534.25, 2% Monitor, LC-UPC |
| PLO-L3DT-A136-LC | LGX, 1 Channel DWDM OADM, ITU C55, 1533.47, 2% Monitor, LC-UPC |
| PLO-L3DT-A137-LC | LGX, 1 Channel DWDM OADM, ITU C56, 1532.68, 2% Monitor, LC-UPC |
| PLO-L3DT-A138-LC | LGX, 1 Channel DWDM OADM, ITU C57, 1531.90, 2% Monitor, LC-UPC |
| PLO-L3DT-A139-LC | LGX, 1 Channel DWDM OADM, ITU C58, 1531.12, 2% Monitor, LC-UPC |
| PLO-L3DT-A140-LC | LGX, 1 Channel DWDM OADM, ITU C59, 1530.33, 2% Monitor, LC-UPC |
| <i>Note: PlugIn Optics also offers 2ch and 4ch OADMs as well as LGX mounting solutions.</i> | |