

Optical Line Protection Switch Typical Optical Transport Network Solution



Background

DWDM network helps maximize the use of existing fiber and optimize the network investment. With optical line protection, the DWDM system can realize the function of automatic switching. When the main optical fiber fails, the protective line will continue to deliver the signal. Therefore, the whole transmission will be more reliable.

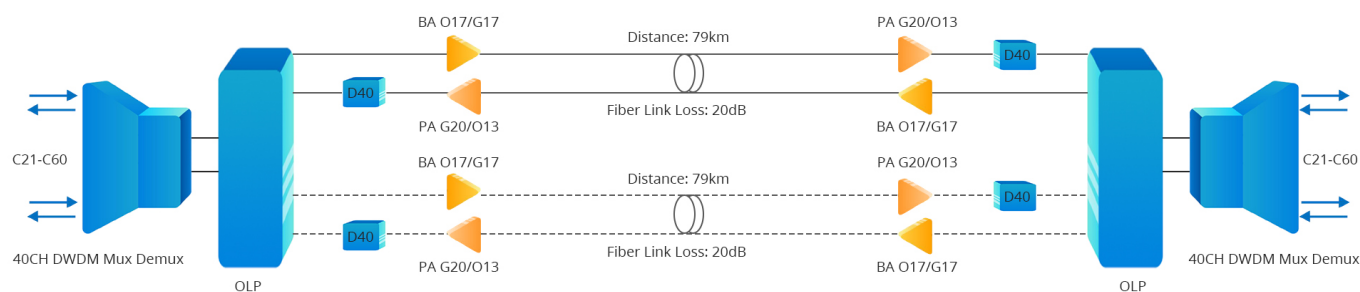
Challenge

- How to build a fast-switching and cost-effective point-to-point protection for long-haul transmission.
- How to extend the link budget to meet the demand for long-distance transmission.

Customer Requirements

- Networking Modes: Point-to point, line protection
- Transmission Distance: 79km
- Transmission Capacity: 40x 10G
- Fiber Link Loss: 20dB (0.25dB/km)
- Fiber Type: G.652D

Solution



Product List

ID	Description	Qty
35887	40 Channels C21-C60, with 1310nm Port and Monitor Port, LC/UPC, Dual Fiber DWDM Mux Demux, FMU 1U Rack Mount	2
72284	20dB Gain Pre-Amplifier DWDM EDFA C-band 13dBm Output, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	4
72283	17dBm Output Booster DWDM EDFA C-band 17dB Gain, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	4
65781	40KM Passive Dispersion Compensation, 4.2dB Low Loss, LC/UPC, Plug-in Card Type for FMT Multi-Service Transport System	4
66010	1+1 Optical Line Protection Switch (OLP), Pluggable Module for FMT Multi-Service Transport Platform	2
70413	4U Managed Chassis Unloaded, Supports up to 8x Multiplexer/EDFA/OEO/OLP Module with Accessories	2
69611	Customized 10G DWDM SFP+ C21-C60 100GHz 80km DOM Transceiver Module	80



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