40CH DWDM Mux Demux 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.

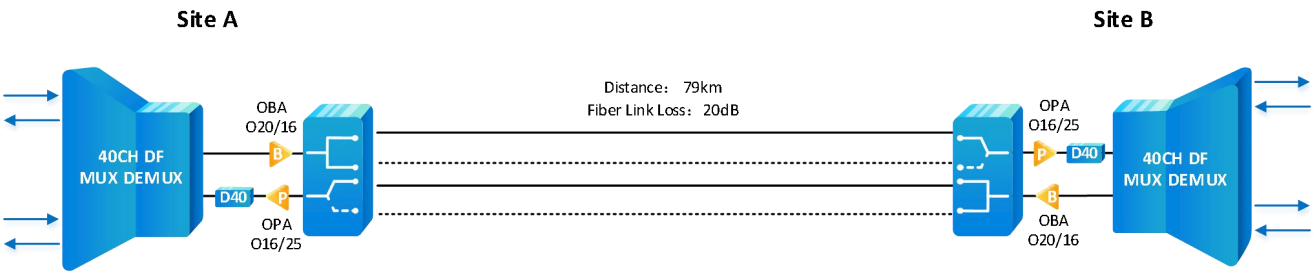
Challenge

- How to establish link protection while achieving the long-haul transmission?
- How to reduce optical loss and ensure enough reserve budget for reliable long-haul 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
111052	M6200-CH5U, 5U Managed Chassis Unloaded Platform, Supports 15x MUX/DEMUX/EDFA/OEO/OLP/DCM Cards	2
109705	M6200-D2160M, 40 Channels C21-C60 Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC	2
107366	M6200-20BA, 20dBm Output DWDM EDFA Booster Amplifer, 16dB Gain	2
107367	M6200-25PA, 25dB Gain DWDM EDFA Pre-Amplifier, 16dBm Output	2
107368	M6200-OLP2, 1+1 Optical Line Protection Switch (OLP)	2
107370	M6200-DCM40, 40KM DCF-based Passive Dispersion Compensation Module	2
69611	Customized 10G DWDM SFP+ C17-C61 100GHz 80km DOM Transceiver Module Wavelengths:C21-C60	80