

# DWDM EDFA Typical Optical Transport Network Solution



## Background

With the demands for high bandwidth capacity and long-haul transmission, OTN network is required by academic and research institutes to interconnect a variety of buildings. One of our customers is looking for a long-haul solution in WDM system.

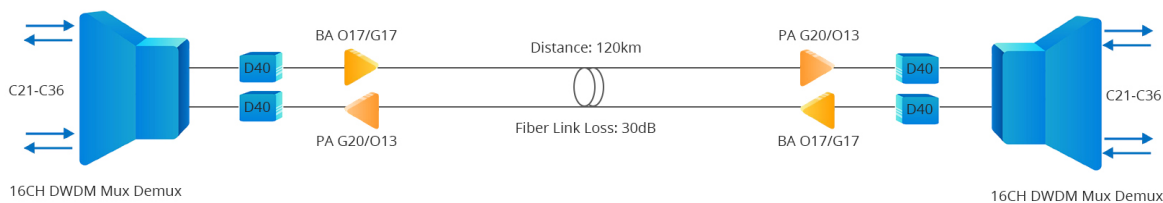
## Challenge

- The transmission distance is 120km, which is out of the range that the common DWDM SFP+ transceiver can support.
- Optical signal loss occurs inevitably during transmission in such a long-haul transmission.

## Customer Requirements

- Networking Modes: Point-to-point
- Transmission Distance: 120km
- Transmission Capacity: 16x 10G
- Fiber Link Loss: 30dB (0.25dB/km)
- Fiber Type: G.652D

## Solution



## Product List

ID	Description	Qty
72430	16 Channels C21 -C36, with Monitor, Expansion and 1310nm 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	2
72283	17dBm Output Booster DWDM EDFA C-band 17dB Gain, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	2
65781	40KM Passive Dispersion Compensation, 4.2dB Low Loss, LC/UPC, Plug-in Card Type for FMT Multi-Service Transport System	4
70413	2U Managed Chassis Unloaded, Supports up to 8x Multiplexer/EDFA/OEO/OLP Module with Accessories	2
69611	Customized 10G DWDM SFP+ C21-C36 100GHz 80km DOM Transceiver Module	32



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