

# 100G Transponder/Muxponder Typical Optical Transport Network Solution



## Background

The increasing use and development of technologies have all lead to high demand for bandwidth. This poses a challenge for carriers, service providers, DCI and enterprises. One of our customers is looking for a solution to build a 100G network by using dark fiber.

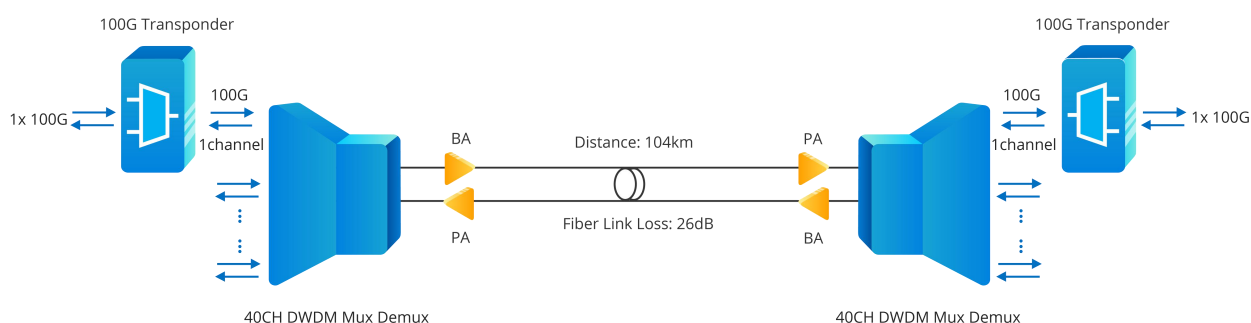
## Challenge

- The 100G capacity of a single wavelength is out of the range that the common DWDM SFP + transceivers can support.
- Optical signal loss occurs inevitably during transmission in such long-haul distance.

## Customer Requirements

- Networking Modes: Point-to point
- Transmission Distance: 104km
- Transmission Capacity: 1x 100G, 39x 10G
- Fiber Link Loss: 25dB (0.25dB/km)
- Fiber Type: G.652D

## Solution



## Product List

ID	Description	Qty
96375	1x 100G QSFP28 or 2x 40G QSFP+ to 1x 100G CFP Transponder/Muxponder with 100G Coherent CFP Transceiver	2
96454	FMX Managed Chassis Unloaded, Supports up to 2x 100G Transponder/Muxponder	2
35887	40 Channels C21-C60, with 1310nm Port and Monitor Port, LC/UPC, Dual Fiber DWDM Mux Demux, FMU 1U Rack Mount	2
39214	1U Managed Chassis Unloaded, Supports up to 4x EDFA/OEO/OLP Module with Accessories	2
72283	17dBm Output Booster DWDM EDFA C-band 17dB Gain, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	2
72284	20dB Gain Pre-Amplifier DWDM EDFA C-band 13dBm Output, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	2
65271	Customized Variable Optical Attenuator, 0~15dB, LC/UPC, Pluggable Module for FMT Multi-Service Transport Platform	2
69611	Customized 10G DWDM SFP+ C60 100GHz 80km DOM Transceiver Module	78
48568	Customized 100GBASE-SR4 QSFP28 850nm 100m MTP/MPO Transceiver Module for MMF	2

**NOTE:** 1. The compatibility of transceivers depend on the switch brand;

2. The 100G transponder/muxponder and FMT series modules (DWDM EDFA) are separately managed by FMX chassis and FMT chassis with different management systems.



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