

MPO TO LC optical breakout equipment



As network infrastructure is deployed to meet the evolving needs of 5G, the cloud and the Internet of Things, an efficient optical breakout solution to maximize asset utilization and simplify fiber management is essential. Nokia delivers a complete solution, ensuring maximum use of equipment resources, cost-effectiveness and enhanced performance to better compete in an on-demand world.

With support for QSFP+, QSFP28 and QSFP28-DD optics on Fiberwdm MPO to LC Optical Breakout line cards, the solution breaks out high-speed ports into the desired number of lower-speed interfaces. This maximizes port density and bandwidth utilization on the host router and minimizes the number of required line card variants.

Key Benefits

- ◆ Lossless speed shift: splits MPO into four independent LC interfaces; fully transparent, zero configuration.
- ◆ Future-proof: supports:
 - 40G SR4, 40G PSM4 Breakout 4*10G
 - 100G SR4, 100PSM4 Breakout 4x25G
 - 400G SR4 breakout 4x100G

Overview



Specification

parameters	SM		MM	
	MPO/UPC	LC/UPC	MPO/UPC	LC/UPC
Insert Loss	≤1.0dB	≤0.5dB	≤0.9dB	≤0.5dB
Return Loss	≥25 dB	≥35 dB	≥25 dB	≥35 dB
Fiber Type	SMF-28e			OM4
Number of plug-times	500 times			
Tensile Strength	66N			
Work Temperature	-20 ~+70°C			
Store Temperature	-40 ~+80°C			
Case Size	1U,19inch (483X44X230mm) for 4slot			

Panel of breakout module

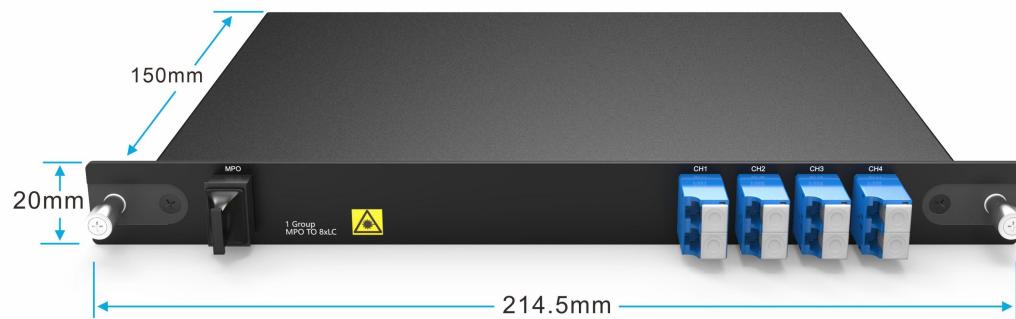


1 Group MPO TO 8xLC



2 Groups MPO TO 8xLC

Package Information



1 Group MPO TO 8xLC



2 Group MPO TO 8xLC



4-Slot 1U Rack for MPO TO LC optical breakout Module

Application

40G TO 4X10G Solution

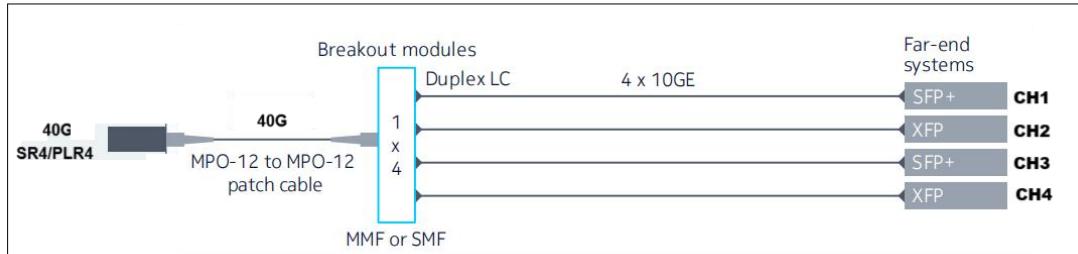


Table 1. 40G TO 4 x 10GE optical breakout solution component details

Component	Description
40G QSFP+ SR4	QSFP+ 40G SR4 MMF 850nm 100m MPO
40G QSFP+ PLR4	QSFP+ 40G PLR4 SMF 1310nm 10km MPO
Rack	1RU chassis to host 4 breakout modules
Breakout Module	1 x MPO-12 to 6 (4 used) duplex LC breakout, MMF
Breakout Module	1 x MPO-12 to 6 (4 used) duplex LC breakout, SMF

100G TO 4X25G Solution

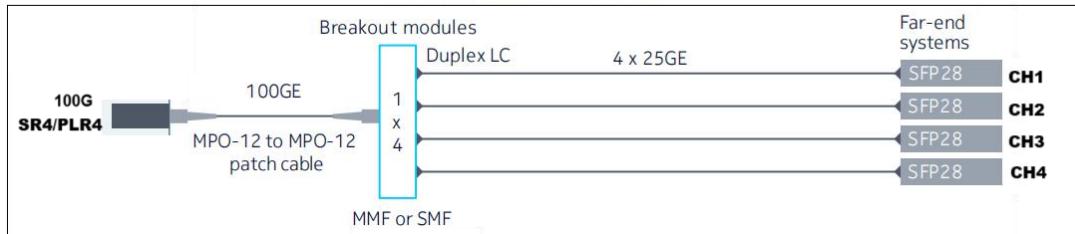


Table 2. 100G TO 4 x 25GE optical breakout solution component details

Component	Description
100G QSFP+ SR4	QSFP28 100G SR4 MMF 850nm 100m MPO
100G QSFP+ PLR4	QSFP28 100G PLR4 SMF 1310nm 10km MPO
Rack	1RU chassis to host 4 breakout modules
Breakout Module	1 x MPO-12 to 6 (4 used) duplex LC breakout, MMF
Breakout Module	1 x MPO-12 to 6 (4 used) duplex LC breakout, SMF