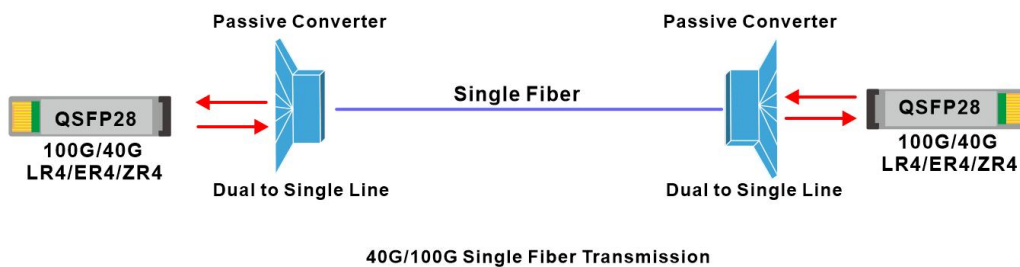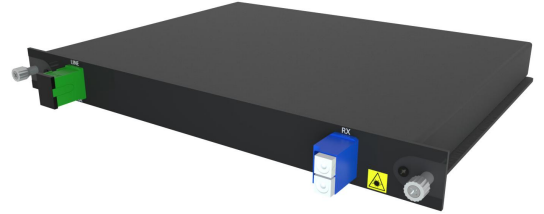**100G LR ER ZR Dual fiber to Single fiber Converter in LGX Box**

As the demand for 100G data transmission with extensive bandwidth increases, the availability of optical fiber resources between data centers is steadily decreasing. Understanding how to repurpose existing optical fibers could result in substantial cost savings for businesses. Pro-optics offers a solution with their 100G dual-port to single-port converter, which is designed for bidirectional transmission of 100GLR4/ER4 optical modules over a single core fiber. This enables multiple 100G services to utilize the existing dual-core fiber effectively.

40G/100G Single Fiber Transmission

Dual fiber 100G transceiver in single fiber transmission application:

Product Panel

100G Dual fiber to single fiber Converter
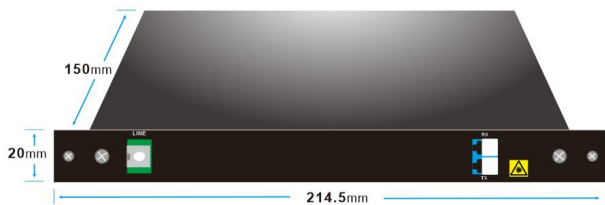
◆ Supports 40G/100G LR4, ER4, ZR4, dual fiber to single fiber
◆ Operation wave 1310nm
◆ TX/RX Port：LC Connector; Line Port SC/APC
◆ Passive device, Low Insertion Loss

Specifications

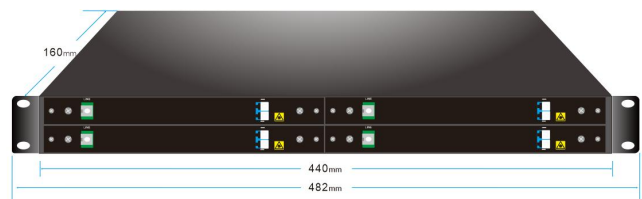| Wavelength	1310nm	Rate	40G/100G
Insertion Loss	≤ 1dB	**Technology**	PBS & Faraday Rotator

Line Insertion Loss	≤ 2.0dB	Isolation	≥35dB
Polarization Dependent Loss	≤ 0.1ps	Return Loss	≥ 45dB
TDL (dB)	≤0.15dB	PMD (ps)	≤0.055nm
Return Loss	≥ 45dB	Directivity	≥ 45dB
Power handling	≤500mW	Fiber Type	SMF-28e
Connector	LC/UPC, SC/APC	Temperature	Operating -40 to 85°C Storage -40 to 85°C
Net Weight	LGX BOX :0.5KG 4Slot 1u Rack: 2.5KG	Dimensions (HxWxD)	LGX BOX 214.5*150*20mm 4Slot 1u Rack 44*440*160mm

Package Information

Plug-in LGX Box

LGX BOX

4-Slot 1U Rack for

Order Information

Product No.	Product description
PO-BIDI-Converter-LGX	100G LR ER ZR Dual fiber to Single fiber Converter, TX/RX port LC/UPC, Line Port SC/APC Plug-in LGX Module
1U-4LGX	19" inch 1U rack with 4 slot for Plug-in LGX box, 440*160*44mm

Note: We Support Customized Design, please contact us by email.