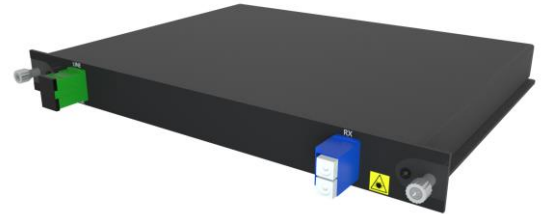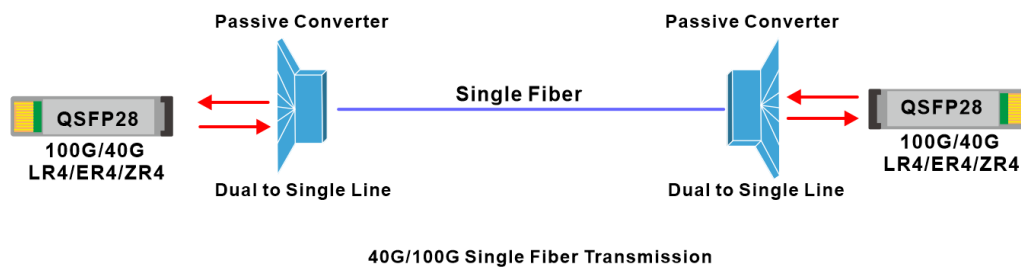## 100G LR ER ZR Dual fiber to Single fiber Converter
RB-BIDI1310-SAVER

With the increase of 100G data transmissions with large bandwidth, optical fiber resources between data centers are becoming scarce and overloaded. Finding ways to reuse existing optical fibers can save considerable costs for enterprises. ROBOfiber provides a passive 100G dual-port to single-port converter for bidirectional transmission of commonly used 100G LR4/ER4 optical modules over only one core fiber, thus allowing doubling of 100G services using the existing dual-core fiber infrastructure.

Dual fiber 100G transceiver in single fiber transmission application:

40G/100G Single Fiber Transmission

Front View
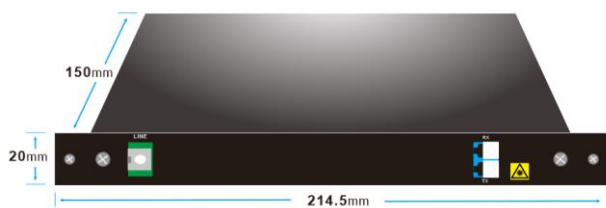

100G Dual fiber to single fiber Passive Converter

- Supports 40G/100G LR4, ER4, ZR4, dual fiber to single fiber
- Operating wave 1310nm requirement
- TX/RX Port：LC Connectors; Line Port SC/APC
- Passive device, Low Insertion Loss

Specifications

Wavelength	1310nm	Rate	40G/100G
Insertion Loss	≤ 1dB	Technology	TFF (Thin Film Filter)
Insertion Loss	≤ 2.7dB	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℃ 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

BOX

4-Slot 1U Rack for LGX

Order Information

Part Number	Product description
RB-BIDI1310-SAVER	100G LR ER ZR Dual fiber to Single fiber Converter，TX/RX port LC/UPC， Line Port SC/APC Plug-in LGX Module
RB-CH04	19" inch 1U rack with 4 slot for Plug-in LGX box, 440*160*44mm

Note: Customized Design is available