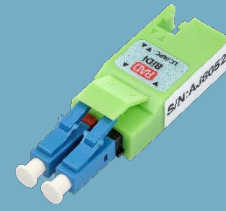


# BiDi-QSFP28-DD Adaptor

## 100G/400G Dual to Single Fiber SFP Adaptor



- 50% fiber savings with quick ROI, avoids cost of laying new fiber
- Works at any bit rate: 1G, 10G, 40G, 100G, 200G, 400G over any optical distance
- Unique patented technology complements SFP, SFP+, SFP28, QSFP28, QSFP-DD, QSFP+, CFP-2
- Compact and simple to deploy, same BiDi adaptor used on both sides of fiber
- Avoids cost of laying new fiber
- Low insertion loss (<2db including connectors)
- 1300nm/1550nm wavelength at any bandwidth rate

BiDi-QSFP28-DD Adaptor is a miniature, passive device. It requires no configuration or separate power source. It simply clips onto existing SFP, SFP+, SFP28, QSFP28, QSFP-DD, QSFP+, or CFP-2 transceivers with LC connectors, to perform a simple dual to single bi-directional fiber connection.

This low-cost 1G/10G/40G/100G/200G/400G QSFP adaptor doubles fiber capacity while avoiding the need for costly new fiber/transceiver deployments.

### MARKET SEGMENTS AND APPLICATIONS

With fiber trenching being costly and capacity finite and expensive, this solution is ideal for network service providers, cloud providers, data center operators, and enterprise network operators wishing to better utilize their existing fiber or save money when renting fiber. BiDi-QSFP28-DD Adaptor frees up fiber for other services by bookending compact passive adaptors with existing or new dual fiber QSFP transceivers. It.

BiDi-QSFP28-DD Adaptor is designed for the following applications:

- Access/aggregation over dark fiber
- Cost reduction of dark fiber rented from a wholesaler
- Short-haul connectivity
- Long haul connectivity, e.g. between DCs
- CSG connectivity to first DC over a single fiber



### INTEROPERABILITY

SFP, SFP+, SFP28, QSFP28, QSFP-DD, QSFP+, CFP-2

### INSERTION LOSS

BiDi-QSFP28-DD Adaptor has low insertion loss (< 2dB including connectors). Distances supported depend on the transceiver.

### DEPLOYMENT AND INSTALLATION

Since BiDi-QSFP28-DD Adaptor is a bookend solution, it is easier to order, keep inventory and deploy than traditional SFP-BiDi transceivers because the same BiDi adaptor is used on both ends of the fiber (whereas traditional SFP-BiDi adaptors require A and B stock options).



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### Specifications

#### INTERFACE

<b>Interoperability</b>	SFP, SFP+, SFP28, QSFP28, QSFP-DD, QSFP+, CFP-2
<b>Connector</b>	LC
<b>Working with Data Rates</b>	1 Gbps, 10 Gbps, 40 Gbps, 100 Gbps, 200 Gbps, 400 Gbps

#### GENERAL

##### Environment

<b>Operating Temperature</b>	-20 to +70°C (-4 to 158°F)
<b>Storage Temperature</b>	-40 to +85°C (-40 to +185°F)
<b>Humidity</b>	up to 90%, non-condensing

#### Physical

<b>Height</b>	8.7 mm (0.34 in)
<b>Width</b>	14.3 mm (0.56 in)
<b>Depth</b>	30 mm (1.18 in)
<b>Weight</b>	device only: 7g (0.3 oz) with the attached FO cable: 17g (0.6 oz)

#### Power

<b>Power Consumption</b>	N/A (Passive component)
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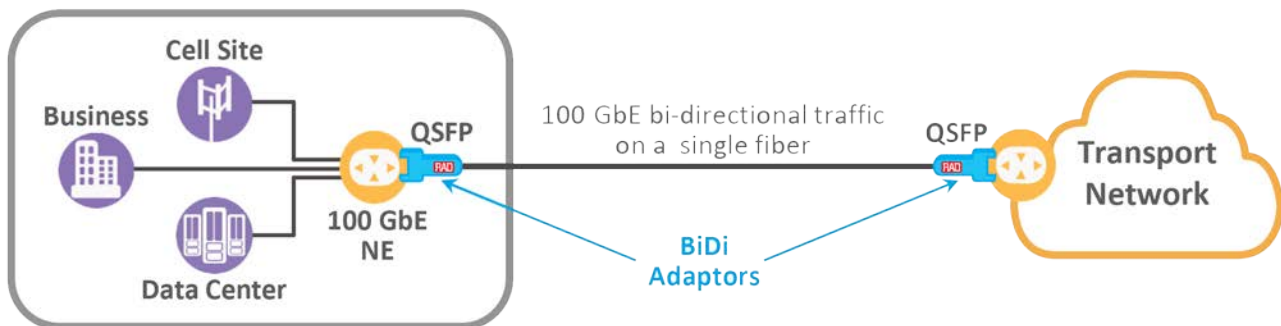
### Ordering

#### BIDI-QSFP28-DD-ADAPTOR/13

Dual fiber to Single fiber SFP adaptor with LC connectors operating at 1300 nm (1291 – 1312 nm) wavelength

#### BIDI-QSFP28-DD-ADAPTOR/15

Dual fiber to Single fiber SFP adaptor with LC connectors operating at 1550 nm (1528 - 1567 nm) wavelength



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