



QSFP-40G-SR-BD DataSheet

Cisco QSFP-40G-SR-BD 40GBASE BiDi QSFP+ transceiver, 832-918nm, duplex LC connector, up to 150m over OM4, perfect for 40G upgrades using existing 10G duplex multimode fiber.

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QSFP-40G-SR-BD Description

QSFP-40G-SR-BD is a Cisco 40GBASE-SR BiDirectional QSFP+ optical transceiver designed for fast, cost-effective 40G Ethernet migration. Known as the "Cisco 40G BiDi module" or "40GBASE-SR-BD QSFP+," it allows customers to leverage existing 10G duplex multimode fiber infrastructure for 40G connectivity without the need for new cabling. The module operates over OM3, OM4, or OM5 multimode fiber using a standard duplex LC connector, supporting up to 100 meters on OM3 and 150 meters on OM4/OM5. With two bidirectional channels in the 832-918nm range, it delivers 40G speeds while simplifying data center and enterprise network upgrades. It is ideal for environments seeking maximum fiber reuse, reduced cost, and straightforward deployment, and complies with the QSFP MSA specification for broad compatibility.

Product Highlights

Data Rate
Wavelength
Max. Distance

Model comparison

Parameter	QSFP-40G-SR-BD	QSFP-40G-SR4	QSFP-40G-CSR4
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Data Rate	40 Gbps	40 Gbps	40 Gbps
Wavelength	832-918 nm (BiDi)	850 nm	850 nm
Connector	Duplex LC	MPO-12	MPO-12
Max Distance (OM3/OM4)	100m / 150m	100m / 150m	300m / 400m
Max Distance (OM5)	150m	150m	440m
Fiber Requirement	Duplex MMF	Parallel MMF	Parallel MMF
Breakout Support	No	Yes	Yes
FCoE Support	No	Yes	Yes
Power Consumption	3.5W	1.5W	1.5W
Digital Diagnostics	Yes	Yes	Yes
Main Advantage	40G over duplex MMF	Standard SR4 & breakout	Extended reach

Specification

Parameter	Detail	Parameter	Detail
Form Factor	QSFP+	Data Rate	40 Gbps
Wavelength	832-918 nm (BiDi)	Cable Type	OM3/OM4/OM5 MMF
Connector	Duplex LC	Max Distance (OM3/OM4/OM5)	100m / 150m / 150m
Breakout Support	No	Power Consumption	3.5W
Digital Diagnostics	Yes	Operating Temperature	+10°C to 70°C
Compliance	QSFP MSA, RoHS 6	Laser Safety	Class 1 (IEC 60825-1)
Dimensions (HxWxD)	13.5 x 18.4 x 72.4 mm		

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