

Australian QSFP-DD Optical Module SFP



Article Overview

QSFP-DD modules support ultra-high-speed 200G-400G networks, while SFP modules are compact, single-channel transceivers for lower-speed applications, with both available from Australian suppliers.

Overview of SFP and QSFP-DD

SFP (Small Form-factor Pluggable) modules are widely used for legacy and low-bandwidth networks, supporting speeds up to 4.25 Gbps, with SFP+ extending this to 10G Ethernet. They are compact, cost-effective, and ideal for enterprise LANs, security camera networks, and access networks. QSFP-DD (Quad Small Form-factor Pluggable Double Density) is a next-generation optical module designed for high-speed data centers, supporting 200G and 400G networks. It doubles the electrical lanes compared to QSFP28, enabling 100G per lane on server ports while maintaining the same physical footprint as legacy SFP cables. QSFP-DD is backward compatible with QSFP28 and QSFP+ optics, allowing gradual network upgrades.

Key Differences

Feature	SFP/SFP+	QSFP-DD
Channels	Single	8 lanes (double density)
Typical Speeds	1G-10G (SFP+), 25G (SFP28)	200G-400G
Form Factor	Compact, single-port	Larger, multi-lane, backward compatible with QSFP28
Applications	Enterprise LAN, access networks, low-speed server links	Data center core, high-performance computing, hyperscale cloud networks
Upgrade Path	Limited to 10G-25G	Smooth transition to ultra-high-speed networks without changing rack architecture

Australian Availability...

Article Content

400GbE QSFP-DD Transceiver Modules | Optical Transceivers

FS 400G QSFP-DD module solutions featuring high-performance, high-bandwidth, and cost-effectiveness, are ideal for 400GbE and

Understanding SFP, SFP+, QSFP and Beyond: Choosing the Right ...

QSFP Active Optical Cable (AOC): A pre-terminated optical cable with QSFP+ modules at both ends, designed for medium- to long

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or

400G QSFP-DD Cable and Transceiver Modules Data Sheet | FS

Product overview The FS® 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data

Cisco offers a comprehensive range of pluggable optical modules in the Cisco ® pluggables portfolio. The wide variety

Understanding Pluggable Optical Modules

QSFP-DD (Quad Small Form-Factor Pluggable-Double Density) optical module: It is a double-density four-channel small pluggable

SFP Transceivers | 3rd Party SFP Transceivers | Plus Optics SFP

An SFP (Small Form-Factor Pluggable) transceiver is a compact and hot-swappable device that plugs into an SFP port on your

Optical Transceivers | SFP QSFP and QSFP-DD Modules | xSONiC

Explore xSONiC optical transceivers for SFP, SFP+, SFP28, QSFP28, and QSFP-DD connectivity across data center and enterprise

Contact Us

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