

# **Do 25G single-mode optical modules need to be used in pairs**



## Do 25G single-mode optical modules need to be used in pairs



It is widely used for CPRI/eCPRI links on 25G Ethernet and single-mode SMF, where wavelengths are tightly packed together to increase the bandwidth of existing fiber networks.



Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.



Learn how to select the right 25GBASE LR SFP28 module with specs, compatibility tips, deployment scenarios, and cost-efficiency considerations for 25G networks.



SFP28 optical transceiver modules provide a transmission rate of 25 Gbps and use LC connectors. 25G BiDi transceivers always require paired sets: a -U must pair to a -D on the opposite end of the BiDi ...



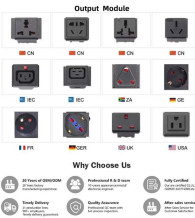
When selecting your 25G optical transceiver, consider the following: Ensure compatibility with your switch or server vendor (e.g., Cisco, Juniper, Arista). Look for “plug-and-play” compatibility lists or ...



This series of products uses a pair of single-mode optical fiber for transmission, with a center wavelength of 1310nm, a distance of up to 30km (without FEC) or 40km (with FEC turned on), and ...



It uses one port to transmit and receive signals over a single strand fiber and must be used in pairs. It adopts two optical signals of different center wavelengths, for example, 1270nm-TX/1330nm-RX at ...



Like traditional transceivers, deploy BiDis in matched pairs, and use two modules: one for the upstream and the other for the downstream. Each part transmits at an opposite wavelength.



25GBASE-LR supports long wavelength serial transmission over duplex (2-fiber) single-mode optical fiber cabling. The application's nominal symbol rate is 25.78125 GBd per lane and the supported ...



Quad Small Form-factor Pluggable (QSFP) transceivers are available with a variety of transmitter and receiver types, allowing users to select the appropriate transceiver for each link to provide the ...

## Contact Us

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