

# How to connect a 40G optical module to a 10G optical module



## Overview

Better option is to use the QSFP-40G-SR4 & 4x 10GBASE-SR. The 4x10G connectivity is achieved using an external 12-fiber parallel to 2-fiber duplex breakout cable, which connects the 40GBASE-SR4 module to four 10GBASE-SR optical interfaces. Key solutions like the 40G QSFP+ SR4 and 100G QSFP28 SR4 modules are central to this approach, enabling the conversion of a single high-speed link into four independent 10G or 25G connections. This capability is ideal for multi-link applications, such as constructing large spine-leaf architectures. As datacom technology migrates from 10G to 40G and beyond, connecting 40G equipment with existing 10G equipment is often necessary. 40G to 10G breakout cabling solution is ideal for connecting high-speed switches populated with higher rate transceivers QSFP+, CFP, CXP, CFP2, etc. Cable solution: use QSFP+ branch cable QSFP+ branch cables include QSFP+ to 4\*SFP+ DAC passive copper cables, and QSFP+ to 4\*SFP+ AOC active optical cables. Today I will introduce the most common 40G QSFP+ optical module MPO port and 10G SFP+ optical module LC port under the letter.

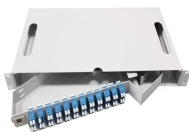
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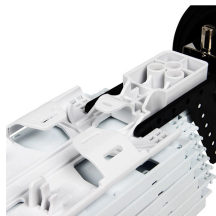
The QSFP-40GB-AOC-4SFP+ active optical cable is specially designed for the interconnection of 40G QSFP ports to 10G SFP+ ports. It uses a multi-fiber multimode optical fiber ...



QSFP 40G SR4 optical module enables high-bandwidth 40G optical links over 12-fiber MPO/MTP female connectors at the wavelength of 850nm and supports link lengths of 100m on OM3 ...



Compare to the common QSFP+ and SFP+ optical modules, those DAC modules don't have expensive optical components, such as optical lasers. The QSFP+ to SFP+ breakout DAC ...



The 40G SR4 module can be connected to 10G rate. The connection between 40G and 10G is achieved by setting the port rate of the switch.



The QSFP+ optical modules and SFP+ optical modules on both sides are connected to the MPO backbone fiber jumper and LC duplex fiber jumper respectively. Between the MPO ...



The 40G QSFP+ SR4 optical module is a prime example, integrating four independent 10G optical channels. It uses an eight-core fiber (MTP/MPO connector) to transmit data, allowing it to ...



How to achieve 40G to 10G breakout cabling? This article will introduce two breakout solutions for you. 40G parallel optics transceivers (40GBASE-SR4) can support 4x10G modes. This ...



Comprehensive QSFP breakout cable guide covering 40G-400G configs, DAC vs AOC options, port mapping, vendor requirements & data center use cases.



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In the 10G upgrade to 40G network solution, you can use a 40G QSFP+ to 4\*SFP+ direct connection cable to directly connect to the switch without purchasing additional optical modules, so that it can ...



The 4x10G connectivity is achieved using an external 12-fiber parallel to 2-fiber duplex breakout cable, which connects the 40GBASE-SR4 module to four 10GBASE-SR optical interfaces.

## Contact Us

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