

How many gigabytes is the LR optical module



Overview

An LR SFP (10GBASE-LR) module is a single-mode optical transceiver that typically operates at ~ 1310 nm and provides reliable 10 Gb/s links up to 10 km over standard single-mode fiber (9/125 μm), used for campus backbones, inter-building links, and metro data-center interconnects. LR matters because. SFP refers to a small form-factor module that can be hot-pluggable. 10G stands for their maximum transmission rate of 10. The transmission distance they represent is from short to. With a wide range of QSFP28 100G optical modules available, you may be wondering what is the difference between 100GBASE-LR4 and Single Lambda 100GBASE-LR. While they both support long-haul transmission and provide high bandwidth, there are significant differences in their technical. Part numbers: 10302, AA1403011-E6 The LR SFP+ module provides a 10 Gb optical connection using LC connectors and single-mode fiber cable up to 10 kilometers long. For a complete listing of hardware compatible with these modules, see the Extreme Optics Compatibility website.



Article Content

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Inventory Of 10G Optical Modules

Figure 1 10G SFP+ SR Optical Module 2. 10G SFP+ LR Optical Module The 10G SFP+ LR optical module operates at a wavelength of 1310nm. Its maximum transmission distance over

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Unlocking the Power of Cisco's SFP-10G-LR: The

In the evolving landscape of networking technology, the Cisco SFP-10G-LR stands out as a pivotal component in the infrastructure of modern data

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Fiber Optic Only SFP-10G-LR Compatible 10GBASE SFP+ 1310nm

For 10 Gb/s LC duplex optical links on single-mode fiber Meets 10GBASE-LR (1310 nm, up to 10 km) specifications with DOM/DDR support Compatible with 10 Gb/s Ethernet ports using the SFP+ form

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SFP 10G LR: 10G Ethernet Long-Reach Optics Explained

SFP 10G LR is a long-reach 10-Gigabit Ethernet optical transceiver defined by IEEE 802.3ae (10GBASE-LR). It operates at a 1310 nm wavelength over single-mode fiber (SMF) and

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SFP+ SR, LR, and ER Modules: Your Definitive Guide to

SFP+ SR, LR, and ER Modules explained: key differences, fiber compatibility, distances, case study, and tips for choosing and deploying reliable

Feb 16, 2026

SFP-10G-LR Datasheet Overview

Cisco SFP-10G-LR module is the single-mode 10G fiber optical transceiver, the Cisco 10G Base-LR Module supports a link length of 10 kilometers on standard single-mode fiber (SMF, G.652) and SFP

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Reach Further, Faster: Your Ultimate Guide to Long-Range 10G Optical ...

Long-range 10G optical modules enable high-speed data over distances up to 80km. Learn about types, specs, compatibility, and choosing the right module.

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Pluggable Transceivers Installation Guide

The LR SFP+ module provides a 10 Gb optical connection using LC connectors and single-mode fiber cable up to 10 kilometers long. For a complete listing of hardware compatible with these modules,

Nov 14, 2025

Understanding 10GBASE-LR Optical Modules: A Long-Range

As organizations expand their networks, 10GBASE-LR will continue to be a key component in ensuring seamless and high-speed connectivity. Conclusion In conclusion, 10GBASE

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What Is 10GBASE-LR? SMF 1310nm 10km SFP+ Explained

10GBASE-LR is a 10-gigabit Ethernet optical standard that operates at 1310 nm over single-mode fiber (SMF), supporting link distances of up to 10 km.

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10G Optical Module Selection Guide: LRM, SR, LR, ER, ZR

In the construction of high-speed networks, 10G optical modules are core components of data centers, enterprise networks, and telecommunication networks. However, facing the numerous

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Optical Transceiver Pricing: Cost Ranges by Speed and

10 Gb/s SFP+ (10G) Optical transceiver 10G optics remain a staple in data-center uplinks. Compatible 10G SR SFP+ modules often sell for tens of dollars, while

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4Pack SFP+ 10GBase-LR LC Module, SingleMode

4Pack 10Gbps 1310nm SFP to LC Single Mode Transceiver Module The 4Pack SFP+ 10GBase-LR module stands out with its exceptional 10Gbps

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Intel® Ethernet SFP+ Optic

Overview For customers looking for Ethernet connections over 15 meters, Intel® Ethernet SFP+ Optics can extend the reach to 300 meters or longer. These optical modules support both short range and

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What's so great about LR compared to LR4 optics?

So that's the sequence of events in a nutshell. As for what's so great about 100G LR from the network operator perspective: Like all Single-Lambda

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How to Choose the Right 10G SFP+ Module: SR, LR, or

At the same time, if the transmission distance is between 300 meters and 2 kilometers, it is more appropriate to choose the SFP-10G-LRM2 optical

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SFP-10G-SR vs LRM vs LR: Which 10G Module Should

Understanding SFP-10G-SR, SFP-10G-LR and SFP-10G-LRM Optical Modules SFP refers to a small form-factor module that can be hot

Oct 30, 2025

Understanding 10GBASE-LR Optical Modules: A Long-Range

10GBASE-LR, as defined by the IEEE 802.3ae standard, is a 10 Gigabit Ethernet (10GbE) specification designed for long-range data transmission over single-mode fiber (SMF). The

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Development trend of optical

The update cycle for coherent optical modules in backbone networks is approximately 10 years. Currently, the speed is at 400 Gb/s per wavelength, and by 2030, it is expected to reach 800 Gb/s or

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The Essential Guide to SFP-10G-LR Optical Transceivers

Understanding its capabilities and selecting the right module is paramount for optimal network performance and cost efficiency. What is an SFP

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SFP-10G-SR vs LRM vs LR: Which 10G Module Should

The SFP-10G-LR is a 10GBASE-LR SFP+ module that adopts a Distributed Feedback Laser (DFB). It operates at a nominal wavelength of

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100G LR4 vs. Single Lambda 100G LR, What's the Difference?

This article explores the key differences between 100GBASE-LR4 and Single Lambda 100GBASE-LR optical modules. It covers their transmission technologies, wavelengths, complexity,

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SFP-10G-LR Guide to 10GBASE-LR Optical Transceiver

What Is SFP-10G-LR? The Cisco SFP-10G-LR transceiver module is a small form-factor pluggable device used for high-speed data transmission over long-range

Dec 31, 2025

LR SFP Module Guide — 10GBASE-LR Specs and Compatibility

An LR SFP (10GBASE-LR) module is a single-mode optical transceiver that typically operates at ~1310 nm and provides reliable 10 Gb/s links up to 10 km over standard single-mode

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100G LR vs LR4: Key Differences & Applications Guide

Compare 100G LR vs LR4 optical modules. Learn about NRZ vs PAM4 modulation, channel differences, and which module fits your network

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Inventory Of 10G Optical Modules

The 10G electrical port module is an electro-optical conversion module packaged in SFP+ form factor, with an RJ45 interface. It is usually used with Cat6A or Cat7 network patch cords,

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What Is QSFP28 LR4? In-Depth Analysis of Long

QSFP28 LR4 modules enable reliable long-distance 100G fiber optic links up to 10km, combining 4x25G lanes with WDM technology for high

Oct 30, 2025

What's so great about LR compared to LR4 optics?

Now we have Single-Lambda 100G pluggable optics, one of which is 100G LR.
There's no "4" because a single wavelength channel carries the full

Contact Us

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