120 Type Socket Optical Module



Overview

Shop DigiKey''s large in-stock selection of Optocouplers, Optoisolators. View inventory, pricing and order now for same day shipping!

Key Takeaways

A 120 Type Socket Optical Module is a fiber optic transceiver or keystone module designed for long-distance optical communication, typically supporting up to 120 km over single-mode fiber.

Overview

A 120 Type Socket Optical Module generally refers to SFP (Small Form-factor Pluggable) transceivers or keystone fiber optic modules capable of transmitting data over long distances, often up to 120 km. These modules are used in network switches, routers, servers, data centers, and broadcast systems to extend optical links without signal degradation.

Key Features

Distance Support: Up to 120 km over single-mode fiber (SMF) for long-haul communication. Connector Type: Commonly uses LC duplex connectors for SFP modules or SC/LC keystone connectors for wall-mounted modules.

Hot-

Pluggable: Many SFP modules are hot-swappable, allowing installation without powering down equipment. Low Power Consumption: Designed for energy-efficient operation in enterprise and ISP networks. Digital Diagnostics: Some modules support monitoring of temperature, voltage, and optical power.

© 2026 AK OPTICAL SYSTEMS - All rights reserved

Compatibility: Works with a wide range of Cisco switches, routers, NICs, and other network devices.

Applications

Enterprise LA

N & SAN Networks: High-speed data transfer and storage connectivity. Internet Service Providers (ISP): Long-distance Gigabit Ethernet links. Broadcast and Video Systems: Optical modules in mini converters allow SDI to optical fiber conversion for SD, HD, and 12G-SDI video signals.

Home or Office Fiber Installations: Keystone modules like the Livolo KMK-SC allow flush-mounted fiber connections for structured cabling. Types of 120 Type ModulesSFP Optical Transceivers: Pluggable modules for switches and routers, e.g., Cisco GLC-EZX-SM-120, supporting 1 Gbps over 120 km with LC duplex connectors. Keystone Fiber Optic Modules: Wall-mounted or panel-mounted modules for connecting fiber patch cables, often with SC or LC adapters, suitable for flush-mounted boxes.

High-

Speed Test Modules: Optical plug-in modules for oscilloscopes or test equipment, supporting up to 120 GHz channels for lab measurements. Installation and UsageSFP Modules: Insert into the SFP slot of a compatible switch or router; connect LC duplex fiber cables. Keystone Modules: Snap into a compatible wall plate or patch panel; connect fiber patch cables to the module's adapter.

Mini Converters: Install SFP modules into the converter to transmit video or data over optical fiber.

Summary

A 120 Type Socket Optical Module is a versatile component for long-distance fiber optic communication, available as SFP transceivers, keystone modules, or high-speed test modules. They provide reliable connectivity for enterprise networks, ISPs, broadcast systems, and structured cabling installations, supporting distances up to 120 km with low power consumption and standardized connectors.

© 2026 AK OPTICAL SYSTEMS - All rights reserved

Article Content

Optocouplers, Optoisolators | Isolators | DigiKey

Shop DigiKey''s large in-stock selection of Optocouplers, Optoisolators. View inventory, pricing and order now for same day shipping!

100G DWDM QSFP28 80 vs 120: Complete

Compare 100G DWDM QSFP28 80km vs 120km modules. Learn differences in optical budget, power, DCM requirements, and best applications.

Optical module

OverviewElectrical Interface TypesOptical modulation and multiplexing typesIn-module componentsElectrical cable equivalentFront panel optical module MSAsOn-Board Optical module MSAsUsers of Optical Modules

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside world through a fiber optic cable. The form factor and electrical interface are often specified by an interested group using a multi-source agreement (MSA). Optical modules can either plug into a front pa

SFP Optical Module Specifications: Standards & Performance

A practical guide to SFP Optical Module Specifications, covering data rates, optical budget, Tx/Rx power, DDM/DOM, standards, and deployment best practices.

10G Base ZR+ SFP+ 120km | 1550nm | 28dB Link

Operating at 1550nm wavelength over 120km single-mode fiber, this 10G Base ZR+ module provides industry-leading distance performance. Supporting multi-rate

Optical Jack Sockets

The CLIFF Electronics expanded range of optical jack sockets are designed to provide robust and reliable fiber-optic connectivity for a variety of

Cisco GLC-EZX-SM-120 1000BASE-EZX 1550nm 120km

QSFP+ (Quad Small Form-factor Pluggable Plus) optical module: four-channel small hot plugging optical module. The QSFP + optical module supports MPO fiber

Schneider Electric 70-ASMM-120 Socket 120 VAC&frasl

© 2026 AK OPTICAL SYSTEMS - All rights reserved

Schneider Electric 70-ASMM-120 Socket 120 VAC&frasl VDC (Nom.) UL Recognized MFR Part #: 70-ASMM-120 | RS Stock Number: 70184939

2Core FTTH Fiber Optic Termination Box Ftth Box/ 2 ports

Find more 509, 50920 and 100001204 products. Enjoy Free Shipping Worldwide! Limited Time Sale Easy Return.

Cisco Compatible Optical Modules Catalog

HARDWARE FEATURES All modules in the Cisco Compatible Optical Modules Catalog are built with industry-leading laser technology, including uncooled DFB (Distributed g Laser) opt to optimize

What is an Optical Module?

Explore the world of optical link modules, essential components in optical fiber communication. Learn about the different types of optical link modules, their functions, packaging, and key technical

Types of Optical Modules

AR100, AR120, AR150, AR160, AR200, AR1200, AR2200, AR3200, and AR3600 Hardware Description This document describes hardware components of the AR, including the cabinet, chassis, power

2.5G STM-16/OC48 120km DWDM SFP Transceiver Module

Buy 2.5G STM-16/OC48 120km DWDM SFP Optical Transceiver from Manufacturer at Affordable Factory Price,5-Year Warranty & Money-back Guarantee.

Comprehensive Guide to Optical Transceiver Classifications and Common Types

Introduction Optical modules are critical components in fiber optic communications, enabling the conversion between electrical and optical signals. They are widely used in data centers,

1.25Gb/s 120km CWDM SFP EZX Transceiver Module

Buy 1.25Gb/s CWDM 1270~1610nm 120km SFP EZX Optical Transceiver from Manufacturer at Affordable Factory Price,5-Year Warranty & Money-back Guarantee.

What Is an Optical Module

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into electrical signals.

10G SFP+ EZR, 1550nm, 120km, DDM, LC/UPC

© 2026 AK OPTICAL SYSTEMS - All rights reserved

With this Mini-Gbic you will be able to carry out installations up to 120km away using Single Mode optical fiber (SMF) using two fibers through fused cables and optical

Mini Converters Tech Specs | Blackmagic Design

Optical Fiber Connection (optional) 1 x SMPTE optical fiber SFP socket. Optical fiber SFP module sold separately.

Additional source notes

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside world through a fiber optic cable. The form factor and electrical interface are often specified by an interested group using a (MSA). Optical modules can either plug into a front pa…

Contact Us

Continue your research online:

Website: https://aboutkitchens.biz
Technical inquiry: https://aboutkitchens.biz/project-desk.html
North American project location: Research Triangle Park, North Carolina, United States

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 AK OPTICAL SYSTEMS - All rights reserved