Netlink Single-Mode Single-Fiber Optic Transceiver



Overview

Its single-mode fiber capability ensures long-distance reach, while the single-fiber SC interface streamlines deployment and reduces cabling complexity.

Key Takeaways

Netlink single-mode, single-fiber optic transceivers are high-performance devices designed for long-distance Ethernet transmission over single-mode fiber, supporting speeds from 100Mbps to 100Gbps depending on the model. Key Features and SpecificationsHTB-1100SData Rate: 100Mbps EthernetTransmission Distance: Up to 100km (depending on fiber quality)Interface: SC single-mode dual-fiber and RJ45 Ethernet portPower Consumption: ~3W, fanless and silent operationOperating Temperature: -10°C to 60°CApplications: Industrial parks, campuses, factories, and remote monitoring setupsPerformance: Stable signal with zero packet loss over 25km, low latency (100,000 hours, suitable for long-term unattended deployment HTB-GS-03 / HTB-GS-03ABData Rate: Gigabit Ethernet (10/100/1000Mbps auto-negotiation)Transmission Distance: Up to 100km with single-mode fiberInterface: Single SC port for single-mode fiber, UTP port auto-negotiates Ethernet speedFeatures: LED indicators for monitoring, low power consumption (~1.

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5W), environmental hardening for extreme temperatures, supports jumbo frames up to 9K, isolation protection for data security HTB-3100AB-25KMData Rate: 100Gbps high-speed transmissionTransmission Distance: Up to 25kmInterface: Single-mode, single-fiber SC interfaceApplications: Enterprise networks, data centers, metro networks, and telecommunications infrastructurePerformance: Carrier-grade reliability, low latency, minimal signal loss, ideal for backbone and high-bandwidth applications Advantages of Netlink Single-Mode Single-Fiber TransceiversLong-Distance Transmission: Single-mode fiber allows low attenuation (~0.

35dB/km), enabling stable communication over tens to hundreds of kilometers. High Reliability: Industrial-grade design ensures stable operation in harsh environments, with high MTBF and resistance to electromagnetic interference. Low Power and Silent Operation: Fanless designs reduce maintenance and energy costs, making them suitable for continuous operation.

Flexible Integration: Compatible with standard Ethernet switches, NVRs, and network equipment, supporting seamless deployment in enterprise and industrial networks. Scalability: Models range from 100Mbps to 100Gbps, allowing selection based on bandwidth requirements and network architecture.

Deployment Scenarios

Industrial Parks and Factories: Reliable long-distance monitoring and control networks. Campus Networks: Extending Ethernet across large areas without signal degradation. Telecommunications and Data Centers: High-speed backbone connections and interconnects.

Remote Surveillance: Stable HD video transmission over tens of kilometers without packet loss. Netlink single-mode, single-fiber transceivers are ideal for users needing long-distance, high-reliability, and low-maintenance optical network solutions, with models tailored for different bandwidth and distance requirements. Choosing the appropriate model depends on the required data rate, transmission distance, and environmental conditions.

Article Content

netlink HTB-3100AB-25KM 100G Optical Transceiver – Single-Mode,

Its single-mode fiber capability ensures long-distance reach, while the single-fiber SC interface streamlines deployment and reduces cabling complexity. This carrier-grade transceiver combines

HTB-GS-03-A/B netLINK 1000M Single-mode Single Fiber Optic

The transmission of a channel optical signals can be completed by single fiber. It has doubled in quantity of fiber data transmission compared with twin fiber type.

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HTB-3100 25km Fiber Media Converter-FutureFiber Solutions

HTB-3100 25km Fiber Media Converter Support the switch between 10/100Base-T and 100Base-FX 8*155Mbps full-duplex fiber ports and 2*10/100M adaptive Ethernet ports Support MDI/MDIX and

Fiber Optical Transceiver| Single Mode Optical Fiber

Type: Single optical fiber Fiber optical transceiver is customized according to telecommunication level. Applicable to remote transmission and control on the LED Display screen. There are single-mode

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Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and

3 Pair HTB-3100 Fiber Transceiver Single Fiber Converter 25Km SC

Bidirectional 10/100M adaptive Ethernet fiber optic transceivers, using the latest IC 113GH chip, high -quality single-fiber bidirectional optical transceiver module, stable performance and excellent quality.

3 Pair HTB-3100 Fiber Transceiver Single Fiber Converter 25Km SC

Dimensions: 93mm x 70mm x 26mm Plug Type:EU Plug,it applies to Indonesia, Germany, France, Spain, Italy and so Bidirectional 10/100M adaptive Ethernet fiber optic transceivers, using the latest

Gigabit single-mode single-core fiber optic module

The general parameters and basic knowledge of Gigabit optical transceivers are difficult to master. The following will introduce the general parameters of the optical module and the basic

What Is Fiber Optics? Definition from SearchNetworking

Learn how fiber optics works and why fiber is a common alternative to copper cabling. Also explore the advantages and disadvantages of optical fiber.

2.5G SFP transceiver,2.5G single mode SFP fiber optical module

2.5G SFP transceiver,2.5G single mode SFP fiber optical module,1310nm DFB laser and PIN photo detector,10Km~20Km transmission with SMF

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SFP Optical Transceiver | SFP Optical Module | Perle

Perle SFP Optical Transceivers are hot-swappable, compact media connectors that provide instant fiber connectivity for your networking gear. They are a cost effective way to connect a single network

Catalog :: AV Distribution & Switching :: Extenders :: Fiber Optic ...

SFP1-SM-D is a fiber optic transceiver using 1310nm single-mode signals. These standard pluggable SFP optical modules have two LC connectors for reception and transmission over two strands of

Product-Optical Transceiver-ACON OPTICS

ACON OPTICS has more than 20 years of design and manufacturing capabilities, expertise in fiber optics interconnect and optical components for solutions in telecommunications, data center, Fiber to

Netlink 100m Fiber Optic Transceiver Single-Mode Single Fiber

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HTB-3100A/B netLINK 10/100M Single-mode Single

netLINK Series 10/100M Single-mode Single Fiber Converter is the conversion equipment of Ethernet optical-electronic signals between 10/100M UTP interface

Must-read for 2025! netlink htb-1100s single-mode fiber to rj45 ...

The top choice for security upgrades in 2025! the netlink htb-1100s single-mode fiber optic transceiver supports 100mbps speeds and a transmission distance of up to 100km. featuring an

10/100m Single Mode Single Fiber Netlink Fiber Optic

This compact Fiber Media Converter transforms 100Base-T (Copper) media to 100Base-SX/LX (Fiber) media and vice versa. The 100Base-T RJ-45 port

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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

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