

5km repeater single-mode optical module



Overview

The Yokogawa SNT501-13 is an Optical ESB Bus Repeater that extends safety communication up to 5km at 128 Mbits/s. Ideal for DCS and SIS applications, this fiber optic module offers EMI immunity and redundant reliability for large-scale industrial networks. The ESB bus transmission distance can be extended within the range of up to 5 km by connecting the ANT401 Optical ESB Bus Repeater Master Module and ANT502 Optical ESB Bus Repeater Slave Module with an. The Yokogawa ANT502 Optical ESB Bus Repeater Module delivers robust long-distance communication capabilities for distributed control systems (DCS), extending ESB bus transmission up to 5 kilometers via optical fiber technology. Engineered for industrial environments demanding reliable data. Fiber Repeaters are used to extend and repeat Ethernet data signals over multimode or single mode fiber up to 160km [100 miles]. These cables use a small core diameter (typically 9 μm) to allow only one mode of light to propagate. This FPV Drones Optical Fiber Image Data Module Relay Extender (Optical Link) from Aoft Technology uses single-mode optical fiber to carry bidirectional control/data and analog video over a wired link. Built with a lightweight yet rugged ABS/Carbon shell, aluminium exit nozzle, and pre-terminated FC connectors, it.



Article Content

Jun 16, 2026

Fiber Optic Repeaters | Single Mode to Multimode

Perle Fiber Optic Repeaters extend and repeat Ethernet data signals over multimode or single mode fiber optic lines up to 160km (100 miles).

Nov 14, 2025

10 Gbit/s SFP+ Optical Module

The wavelength of these 10 Gbit/s SFP+ optical modules can be 850 nm, 1310 nm, or 1550 nm, and the transmission distance ranges from 0.3 km (0.19 mi.) to 80 km (49.71 mi.). Figure 1

Sep 22, 2025

FPV Drones Optical Fiber Image Data Relay Extender

This FPV Drones Optical Fiber Image Data Module Relay Extender (Optical Link) from Aoft Technology uses single-mode optical fiber to carry bidirectional

Jun 20, 2026

UniFi 10G Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

Aug 03, 2025

SFP Optical Transceiver Modules for Long Distance: A

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

Mar 05, 2026

Best 10G BIDI SFP+ Module Optical Network

Explore the details, specifications and video of our 10G BIDI SFP+ Optical Transceiver Single Mode Module 10km, and order high-quality 10G BIDI SFP+

Jul 26, 2025

GS33K50F51-50E

The Optical ESB Bus Repeater Module converts the ESB bus to an optical signal and transmits it. The ESB bus transmission distance can be extended within the range of up to 5 km by connecting the

Jan 11, 2026

1 Pair Single Mode Fiber Optic SC Connector Optical

Buy 1 Pair Single Mode Fiber Optic SC Connector Optical Fiber Transceiver BIDI 1.25g SFP Module 1310/1550 5KM/20KM/40KM/60KM/80KM SFP Module online

Mar 26, 2026

Yokogawa ANT502 Optical ESB Bus Repeater Module | 5km Range

The Yokogawa ANT502 Optical ESB Bus Repeater Module delivers robust long-distance communication capabilities for distributed control systems (DCS), extending ESB bus transmission up to 5 kilometers

Aug 13, 2025

Yokogawa SNT501-13 Optical ESB Bus Repeater Module

The Yokogawa SNT501-13 is an Optical ESB Bus Repeater that extends safety communication up to 5km at 128 Mbits/s. Ideal for DCS and SIS applications, this fiber optic module offers EMI immunity

Dec 04, 2025

GS33K50F51-50E

The ESB bus transmission distance can be extended within the range of up to 5 km by connecting the ANT401 Optical ESB Bus Repeater Master Module and ANT502 Optical ESB Bus Repeater Slave

Oct 13, 2025

1 Pair SC/LC 5KM 20KM Gigabit SFP Module BiDi Single Mode Fiber Optical ...

Low power dissipation 8. ROHS compliant and Lead Free 9. Hot-pluggable, Plug and Play 10. Brand-New, High Quality, Switch to Switch interface Switched backplane applications Router/Server

Feb 22, 2026

Single Mode SFP Transceiver | Optcore

High-performance single mode SFP transceivers for long-distance networking applications. Find the perfect SFP module for your switches and devices.

Mar 22, 2026

Singlemode Fiber Optic Transmitters, Receivers, Transceivers

Singlemode Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Singlemode Fiber Optic Transmitters, Receivers,

Mar 15, 2026

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

Mar 29, 2026

1.25G SC SFP Module Optical Module 20Km

This 1.25G SC SFP Module is a high-performance 1.25G SFP fiber module designed for 20km bidirectional data transmission over single-mode fiber (SMF). This SFP

Feb 18, 2026

5km Fiber Optic Spool for UAV & FPV | Single-Mode G657A2

It provides a secure optical data link for surveillance, inspection, and field-deployable drone systems. Unlike long-endurance 20KM systems, the 5KM configuration focuses on balanced range and

Feb 01, 2026

10G Bidirectional Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex LC UPC connector.

Jan 21, 2026

High-Performance Optical Fiber Module 5km for Fpv Invisible Systems

Our advanced fiber image data module harnesses the power of optical fiber as a transmission medium, providing unmatched stability, speed, immunity to electromagnetic interference, and safeguarding

Jun 22, 2026

1km Single Fiber SFP 11D K001B55

Find the 1 KM Single Fiber SFP SFP-11D-K001B55 at SanSpot. High-quality, reliable SFP for seamless fiber optic connectivity. Shop now for top performance.

Jan 27, 2026

10G SFP+Duplex LC Optical Fiber Module Single 5km

Sfp 28|Enhance your network with our 10G SFP+Duplex LC Optical Fiber Module, featuring a single 5km 1310nm reach and compatibility with a wide range of

Apr 07, 2026

Industrial GbE Fiber SFP Optical Transceiver Module

Industrial Gigabit Fiber SFP Optical Transceiver Module, 1000Base-LX (LC) Single-Mode Port, 10 km (6.2 mi.), MSA-compliant for Maximum Compatibility, Silver -

Jun 21, 2026

Fiber Optic Cable Distance: A Comprehensive Guide

Learn all about fiber optic cable distance and the key factors that affect it. Find out how to select the appropriate cables for your network and

Feb 20, 2026

10G SFP+ module SM 20KM 40KM 80KM TX/RX

10G XFP module 10G XFP modules with fiber optics allow customers to utilize an XFP 10 Gigabit port on an existing piece of hardware to send either multi-mode

Apr 06, 2026

1km Single Fiber SFP 11D K001B31

The module is designed to strictly comply with well known SFP specifications developed by the SFF committee. This module is RoHS compliant and lead-free. OptoSpan 1Gb Single Fiber optical

Nov 22, 2025

5km Single Fiber Optic

Discover 5km single fiber optic cables with single-mode fiber optical cable technology for reliable fiber-optic communication. CE certified, ideal for FPV drones and long-range data transmission.

Jan 02, 2026

GS33J60F51-01EN

The Optical ESB Bus Repeater Module converts the ESB bus to an optical signal and transmits it. The ESB bus transmission distance can be extended within the range of up to 5 km by connecting the

Apr 04, 2026

Gigabit Single-Mode Dual-Fiber Optical Module 1.25G Optical

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