

Five-kilometer optical module



Overview

This 5km Fiber Optic Canister provides a lightweight, high-bandwidth tether solution for FPV drones, enabling stable video feed, control, and data links over kilometers — ideal for long-range flights, inspections, or cinematography missions. The WY-5001A is a high-performance long-range laser rangefinder module designed for advanced applications in UAV systems, electro-optical payloads, remote weapon stations, and aerospace-grade platforms. This breakthrough product marks a global milestone in the laser rangefinding industry. By combining a 1535nm erbium glass. To meet the demand for higher precision and longer measuring ranges, we proudly introduce our newly developed 5km laser rangefinder module. Whether for target. Optical Interconnection Forum (OIF), domestic and international standardization organizations International Telecommunication Union (ITU-T), the Institute of Electrical and Electronics Engineers (IEEE), 4WDM and other multi-source agreement (MSA), the China Communications Standards Association. 1 ground station, 1 battery, 1 video transmission line, 2 aircraft connection lines, and 1 roll of 5km optical fiber (Sky Station is built in the optical fiber reel).



Article Content

Feb 08, 2026

Fpv Optical Fiber Kit 0.3mm 0.4mm Fiber 5km 10km

Fpv Optical Fiber Kit 0.3mm 0.4mm Fiber 5km 10km 20km 30km Uav Fibre Optic Image Data Module for Optical Communication, Find Details and

Feb 03, 2026

100G QSFP ZR4 S Optical Module Overview

Thanks to the module's integrated SOA, the QSFP-100G-ZR4-S is smaller than a combination of optical plus amplifier modules, costing less and consuming less power, while

Jan 31, 2026

SFP 5 km transceiver | Cisco Compatible 4G LX Fiber

Cisco Compatible SFP 1310nm transceiver Details: This advanced 10dB transceiver is designed for highly reliable fiber optic network links up to 5 km. Using FP

May 16, 2026

5 km 1535 nm Eye-Safe Laser Rangefinder Module | Lightweight

The WY-5001A is a high-performance long-range laser rangefinder module designed for advanced applications in UAV systems, electro-optical payloads, remote weapon stations, and aerospace

Dec 24, 2025

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

May 25, 2026

SFP+10G 1310nm 10Km LC Optical Module Guide

The SFP+10G 1310nm 10Km LC optical module is a powerful and versatile solution for high-speed, long-distance data transmission. Understanding SFP+ optical

Mar 03, 2026

Understanding 5G Communication Optical Transceivers:

Explore the role of optical modules in 5G communication, including their types, features, and deployment in fronthaul, midhaul, and backhaul networks.

Sep 16, 2025

Version 1.0 (0.37mm/1000g)Optical fiber communication

1 ground station, 1 battery, 1 video transmission line, 2 aircraft connection lines, and 1 roll of 5km optical fiber (Sky Station is built in the optical fiber reel).

Feb 26, 2026

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034,

Oct 26, 2025

The Best Optical Transceiver Modules for 5G Fronthaul

The fronthaul optical module mainly includes 25Gb/s and 100Gb/s two rate types, supporting hundreds of meters to 20 km of typical transmission distance.

Jun 27, 2025

What is the maximum distance for fiber internet?

While the theoretical capabilities of fiber optics are immense, practical deployments are constrained by factors like signal attenuation, dispersion, and the

Jun 07, 2026

Optical Module Chip Market 2025

Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach US\$ 1.52 billion by 2032, at a CAGR of 8.0%

Sep 18, 2025

Fiber Optic Cable Distance: A Comprehensive Guide

Single-mode fiber optic cables are more suitable for long-distance, high-speed transmission than multimode fiber optics. For most applications, the

Sep 01, 2025

Image Digital Module 3km/5km/10km G657A2 Fpv Drone Fiber Optic

Image Digital Module 3km/5km/10km G657A2 Fpv Drone Fiber Optic, Find Details and Price about Uav Fiber Optic 0.27mm Invisible Cable from Image Digital Module 3km/5km/10km G657A2 Fpv Drone

Sep 10, 2025

L-com Round Simplex Optical Cable, 62.5/125 OM1, LSZH Rated,

The L-com FOB-1F3DM1Z-1KM brought to you by ShowMeCables is a 1-kilometer spool of 62.5/125 multimode OM1 fiber optic cable. This indoor optical cable comes with a simplex construction and is

Jul 11, 2025

Fiber Optic Canister

This 5km Fiber Optic Canister provides a lightweight, high-bandwidth tether solution for FPV drones, enabling stable video feed, control, and data links over

Feb 24, 2026

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Multi-mode links can

Jun 26, 2026

Amazon : Transwan USB 2.0 Over Fiber Extender to Max 5 Kilometers ...

USB 2.0 Over Fiber Extender to Max 5 Kilometers Over 1 Core SMF, USB 2.0 Over Fiber Converter, Compatible with USB 1.1, w/SFP Module, Plug & Play

Oct 13, 2025

Optical Module Solutions for 5G& 5.5G Network Deployment

As an indispensable component of network infrastructure, optical modules play a crucial role in the deployment of 5.5G networks. This article will delve into the optical module solutions

Mar 01, 2026

Break the Limits - 5km Laser Rangefinder Module,

To meet the demand for higher precision and longer measuring ranges, we proudly introduce our newly developed 5km laser rangefinder module. Equipped with

May 05, 2026

Understanding Long Distance Fiber Optic Runs for New

This guide will break down the essentials, from selecting the right hardware to troubleshooting common issues that can arise in long-distance fiber runs.

Jan 31, 2026

Lumispot Launches 5km Erbium Glass Rangefinding Module: A New

Lumispot has officially launched its latest innovation, the LSP-LRS-0510F erbium glass rangefinding module, which boasts a remarkable 5-kilometer range and ± 1 -meter accuracy. This breakthrough

Jun 13, 2026

SFP transceivers

S-31DLC20D is a 1.25G SFP transceiver with a 1310nm Dual fiber LC connector, for up to 20 kilometer Single Mode fiber connections, with DDMI S-35/53LC20D is a pair of SFP transceivers, the S

Jan 16, 2026

5G Optical Transceiver Market Report 2026

Key opportunities in the 5G Optical Transceiver Market include supporting rapid 5G infrastructure expansion and high mobile data demands with advanced transceivers. Emphasis on

Jun 25, 2026

Fiber Optic Cable Distance: A Comprehensive Guide

Fiber optic cables are the backbone of modern communications, enabling high-speed data transfer over vast distances. Unlike traditional copper

Aug 28, 2025

Optical Transceivers | Coherent

Optical Transceivers Get the pluggable module performance you need from the manufacturer of choice for major networking equipment vendors worldwide.

Contact Us

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