

High-altitude optical module



Overview

An imaging system ideal for high-altitude, long-range persistent surveillance and reconnaissance missions from manned and unmanned airborne platforms. An Ideal Surveillance Solution for: ISR -High-Altitude; Long-Range Maritime Patrol Aircraft (MPA) and Persistent Surveillance. For over 30 years, MACOM has developed and manufactured the fastest, most sensitive and broadest wavelength photoreceivers available. Our experience in leading-edge technology allows us to provide products that easily integrate within customers' systems. MACOM's photoreceiver product line focuses. Free-space optical communications (FSOC), which use lasers for data transmission, are a promising approach for achieving high-speed links between aircraft, spacecraft, and ground stations. Together, they ensure resilient data center interconnectivity and empower.



Article Content

Aug 11, 2025

Optical fiber bundles offer promising solution for high-altitude laser ...

To address this technical challenge, a research team led by Francesco Nardo from the Karlsruhe Institute of Technology, Germany, investigated a novel solution: using optical fiber bundles (FBs).

Sep 27, 2025

IEEE Study Demonstrates Optical Fiber Bundles as a Promising ...

To address this technical challenge, a research team led by Mr. Francesco Nardo from the Karlsruhe Institute of Technology, Germany, investigated a novel solution: using optical fiber bundles ...

Jan 29, 2026

High Speed Optical Receiver Modules

Vertical Integration: From material growth through hybrid assembly and high-speed test In-house Design: Fast prototyping, optical and RF design simulations and characterization Hybrid Assembly: ...

Mar 11, 2026

WESCAM MX™-20, Air Surveillance and Reconnaissance

The WESCAM MX-20 EO/IR imaging system – ideal for high-altitude, long-range persistent surveillance and reconnaissance missions from manned and unmanned airborne platforms.

Aug 28, 2025

Optical Transceivers / SFP Modules – High-Performance Compatible ...

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and ...

Feb 06, 2026

Wholesale Optical Transceivers Module | 100G QSFP28, 40G QSFP

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical support & wholesale pricing.

Aug 24, 2025

Optical Modules in Intelligent Computing Scenarios

In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid ...

Sep 03, 2025

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Apr 28, 2026

Optical fiber bundles offer promising solution for high-altitude ...

These systems use mechanical gimbals to redirect the optical components as needed to maintain a link with another stationary or moving transceiver. However, aircraft would need multiple of them...

Dec 08, 2025

Enabling Next-Gen Defense & Aerospace Systems with Rugged ...

Rugged optical transceivers reliably function from -40°C up to +85°C and beyond, making them suitable for avionics, satellite systems, and other outdoor, high-speed, and high-altitude ...

Apr 05, 2026

WESCAM MX™-20, Air Surveillance and ...

The WESCAM MX-20 EO/IR imaging system – ideal for high-altitude, long-range persistent surveillance and reconnaissance missions from manned and ...

Contact Us

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