

Aerospace Electrical Optical Modules



Overview

Optoelectronic (Photonic) PCB-Mount Modules for Use in Ethernet, High-Speed Video, and Storage Applications in Commercial Aircraft, Military Aerospace, Outer Space, Defense, and Other Harsh Environments

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Welcome to the Optical Components section for Aerospace Imaging & Optics, your premier source for the latest advancements in optical technology. Discover how cutting-edge optical components are enhancing performance, reliability, and precision in aerospace applications. Stay informed with expert.

Glenair, Inc: Space and Military-Grade Board-Mount Optical Transceiver Technologies — Including Four to Twelve Channel Parallel Optic Modules — Selected Components Radiation Tested. With over 40 years of experience in photonics technology, LASER COMPONENTS has developed a wide selection of components to build systems to get. Military QPL and MCOTS Fiber optic interconnect technologies (MIL-DTL-38999 Type, MIL-DTL-83526 GFOCA Type, MIL-PRF-28876, ARINC 801 and more) deliver high data rate and high bandwidth performance in harsh land, sea, air, space and C4ISR applications. Precision-engineered QPL and commercial fiber.

Article Content

Protecting aerospace, aviation & defense electronics | SCHOTT

They support high-performance electronics like microwave amplifiers, TRM modules, radar systems, and IR detectors. In aviation, satellite systems, and space vehicles, hermetic components safeguard

Wide-Body and Narrow-Body Aircraft Solutions | TE Connectivity

Products for Wide-Body and Narrow-Body Aircraft Safety, comfort, and reliability in aircraft are by-products of an intricate network of power, avionics, flight control, electrical, and communications sub

Teledyne Qioptiq

Teledyne Qioptiq delivers cutting-edge optic solutions for dismounted soldier systems, avionics, optronic modules, and space applications.

AEROSPACE

In the aerospace market it is increasingly recognised that PICs are a technology offering a strong potential to improve performance of the existing aerospace system based on electronic or photonics

Fiber Optic Connectors, Termini, Cable Assemblies, and Board

Complete design and manufacturing capability for rugged metal and lightweight composite solutions incorporating backshells, fiber media protection conduit, and electrical and optical connectors in both

Aerospace Fiber Optic Cables | Interconnect Solutions

Inneos VCSELs and optical modules offer high-performance, high-bandwidth connectivity solutions for high reliability aerospace applications.

DataStar™ MIL-AERO Embedded Quad Parallel Fiber

Glenair DataStar™ MIL-AERO Quad PCB-mounted modules are low-profile, ruggedized, optoelectronic engines with high-datarate performance. The optical

Optoelectronic & PCB-Mount Modules

Selected components have survived high levels of gamma, proton, and heavy ion radiation testing and are suitable for use in space applications, such as

Defense and Aerospace

Find the essential optical and optoelectronic components for defense and aerospace systems.

Optical module

Optical modules can either plug into a front panel socket or an on-board socket. Sometimes the optical module is replaced by an electrical interface module that implements either an active or passive

Modular fiber optic transceiver platform targets aerospace and

TE Connectivity launched the MULTIGIG Transceiver (TRX) platform at the Paris Air Show. With increased modularity, this latest offering features a rugged, lightweight design to meet

Military & Aerospace | Amphenol Active Optics Products

Amphenol AOP has leveraged its 15 years' experience, together with Amphenol Military & Aerospace Operation's (AMAO's) understanding of its customers, to develop state-of-the art rugged and high

Space design resources | TI

Optical imaging payload Radar imaging payload Satellite electrical power system (EPS) Why choose TI for your space design? Deliver continuous innovation Our

Ruggedized Parallel Optical Transceivers, DWDM Transceivers, and

Glenair, Inc: Space and Military-Grade Board-Mount Optical Transceiver Technologies — Including Four to Twelve Channel Parallel Optic Modules — Selected Components Radiation Tested.

Eyes across the spectrum: Advancing India's EO/IR Capabilities

Strategic materials are the critical enablers behind performance, reliability and sensitivity of surveillance and electro-optic (EO) equipment, including sensors, optics, imaging systems and tracking modules.

Solutions for Aerospace Technologies | TE Connectivity

TE Connectivity (TE) supports the commercial and military aerospace industry with knowledgeable experts, leading-edge products and innovative solutions to tough

Microsoft Word

For embedded computing applications in aerospace, Integrated Modular Avionics (IMA) are an important driver in achieving flexibility. With distributed avionics gaining new popularity as a way of achieving

Electro-optical sensors and signal processing merge for

High-energy lasers, infrared sensors, artificial intelligence, and machine learning converge in the latest challenges to high-performance digital

Space | Amphenol Aerospace

Amphenol offers a range of hermetically sealed connectors, high speed fiber optics, ruggedized assemblies and more that excel in the extremely harsh environment

Amphenol Aerospace

Amphenol Aerospace designs and manufactures QPL Mil-spec and custom circular and rectangular electrical and electronic connectors for the military and

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules convert electrical signals into optical

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Aircraft Connectors Explained: Electrical, RF, Fiber Optic & Fluid ...

Fiber optic connectors are used in aerospace platforms to transmit high-speed digital signals with low latency, high bandwidth, and minimal signal degradation. These aircraft connectors

Passive alignment optical subassemblies for military/aerospace fiber ...

Under the DARPA sponsored Avionics Optoelectronic Module Technology program, new passive alignment carrier (PAC) optical subassemblies (LED-PAC and PIN-PAC) ruggedized for

Contact Us

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