

Number of patents for optical modules





Overview

The number of patent applications for optical module technologies increased by 35% from 2020 to 2023, with fiber optic design and signal processing being the most active areas. Search within the title, abstract, claims, or full patent document: You can restrict your search to a specific field using field names. Detailed coverage information PCT publication 19/2026 (May 7, 2026) is now available here. Telecommunication networks (wireless and wired) are the second-largest application, contributing 28% of market revenue in 2022. Explore the linkages between documents and entities by viewing and analysing the forward and backward citations to other scholarly works, as well as the citing patents. Patsnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. Optical module refers to a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications.



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Patent and Technology Information

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Analyses of the Key Technologies and Development

Given that technologies disclosed by standard essential patents (SEPs) are the key technologies that determine the standards in relevant



OPTICAL MODULE

Abstract: An optical module of a configuration that ensures use of commercially available electronic components and reduction of the number of current generation circuits and electric wirings.

CMU School of Computer Science

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U.S. Patent for Optical module Patent (Patent # 12,366,714 issued)

The optical module interface 102 is configured to connect to the optical module 200, so that a bidirectional electrical signal connection is established between the optical network terminal



US20250123456A1

In order to solve the above-mentioned problems, one of the technical aspects adopted by the present disclosure is to provide an optical module.





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Optical fiber patented technology retrieval search results

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Optical fiber-related invention patents and utility model patents,

The Lens

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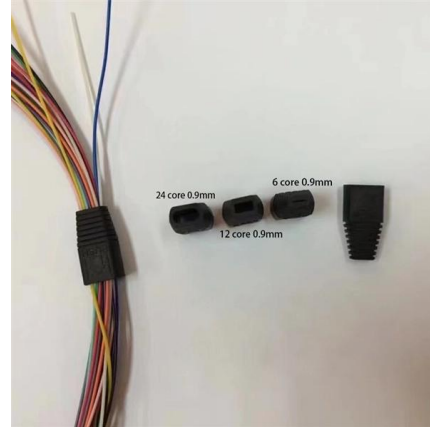
2106-Patent Subject Matter Eligibility

The § 101 patent-eligibility inquiry is only a threshold test. Even if an invention qualifies as a process, machine, manufacture, or composition of matter, in order



Lens Patent Search

Explore the linkages between documents and entities for this result set by viewing and analysing the forward and backward citations to other patents, as well as the non-patent literature citations that



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Optical Fiber Patents (Class 398/20)

Search for Optical Fiber Patents and Patent Applications (Class 398/20) Filed with the USPTO



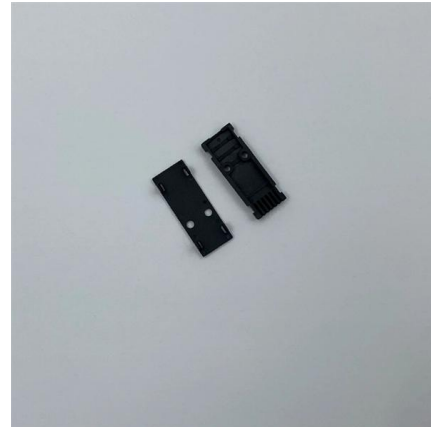
Co-Packaged Optics -- a deep dive , APNIC Blog

The Bailly switch uses 16 efficient pluggable laser modules, two modules per 6.4Tbps optical engine. NVIDIA's solution goes further by drastically



Optical Patents (Class 365/234)

Abstract: A tissue imaging system includes a laser module for outputting a laser pulse, an optical delay module configured to split a laser pulse received from the laser module into a plurality of

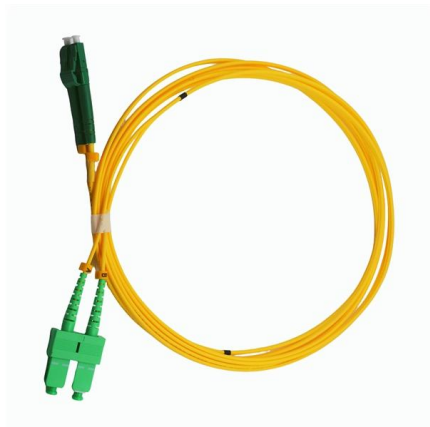
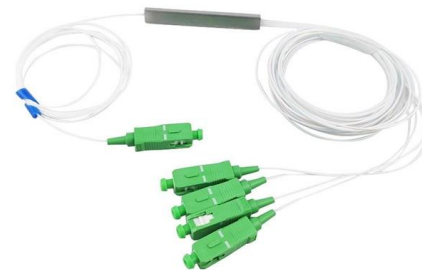


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OPTICAL MODULE

Thus, the optical module to which Patent Literature 1 is applied has smaller occupation areas of pads for the electrical wires and wire bondings on the light wave circuit board.

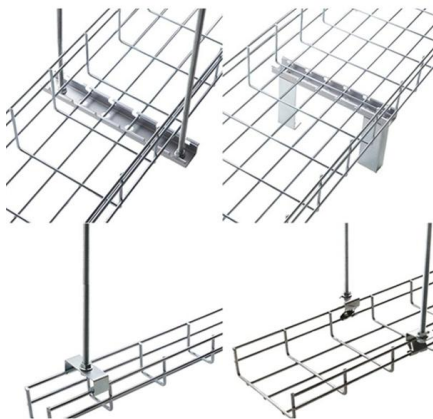


OPTICAL MODULE AND OPTOELECTRONIC SUBSTRATE

In addition, in addition to the light sources, semiconductor optical amplifiers may be used. In such a manner, the number, disposition positions, and connection mode of the optical ICs



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WO/2024/104491 OPTICAL MODULE

An optical module (200), comprising: a light source (401) and a circuit board (300), wherein the light source (401) comprises a package cavity (410), which is provided with a connecting

- Full Customization Support
- Free Design & Fast Sample Service
- Eco-friendly & Certified Materials
- Strict Quality Control

SGS CE ISO 9001:2015
BSCI GCC



The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

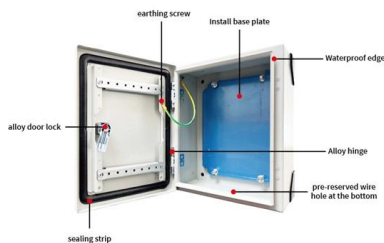


Optical Module and Method of Fabrication

The optical module may have better SI than the described prior art OMCMs. The optical module may be fabricated at lower cost and using a simpler fabrication method than the described prior art OMCMs,

Optical Module patented technology retrieval search results

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Optical Module-related invention patents and utility model patents,



Optical Modules Evolution and Innovation From 400G to

Explore the evolution of optical modules in speed and form factors from 400G to 1.6T, stressing key enhancement technologies, and paths to

Optical Module Industry Statistics 2026



The global number of active patents for optical module technologies reached 120,000 in 2023, with 35% filed by Asian companies (primarily Chinese and Japanese).



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