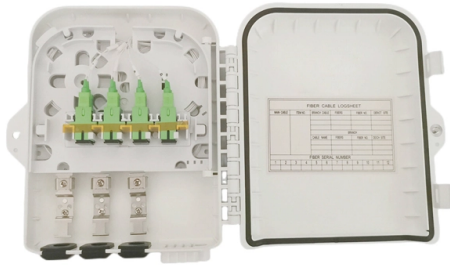


Computer optical module interface



Overview

They mainly consist of optoelectronic components (such as optical transmitters and receivers), functional circuits, and optical interfaces, aiming to achieve the functionalities of optical-to-electrical and electrical-to-optical signal conversion in optical fiber communication. An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. An SFP interface on networking hardware is a modular slot for a media-specific transceiver, such as for a fiber-optic cable or a copper. An optical link module is a compact device that converts electrical signals into light signals and transmits them through fiber optic cables - enabling data transfer at speeds up to 800Gbps over long distances. Also known as an optical transceiver, it sits at the physical layer of the OSI model and. The optical module is one of the core devices of the optical communication system, and its development has a vital impact on its related industrial chain, from the upstream industry chip substrate, PCB to the downstream telecom market and data communication market, and the field of lidar driverless. In data center and communication network construction, optical modules, as core components for photoelectric signal conversion, directly determine equipment compatibility and transmission performance through their interface types. Correctly understanding and distinguishing various commonly used.

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