Introduction to the Internal Structure of the Optical Module

Overview

Optical module usually consists of a transmitter assembly (TOSA, containing a laser LD chip), a receiver assembly (ROSA, containing a photodetector PD chip), a driver circuit, an optoelectronic interface, a heat sink (some models), a housing, a pull ring and so on. The working principle of optical modules is illustrated in the diagram shown in the Optical Module Working Principle Diagram. Subsequently, the driver semiconductor laser. Optical modules are devices used to connect network devices, transmit and receive data between network devices, and can be used to convert optical and electrical signals. This article will introduce you to the. Laser (Light Source): Generally, a laser diode (LD) or light-emitting diode (LED) is used as the light source. LD is suitable for long-distance, high-speed transmission, while LED is used for short-distance, low-speed applications. It is the core device for connecting communication equipment with optical fibers. Modulator — encodes data onto the light.

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