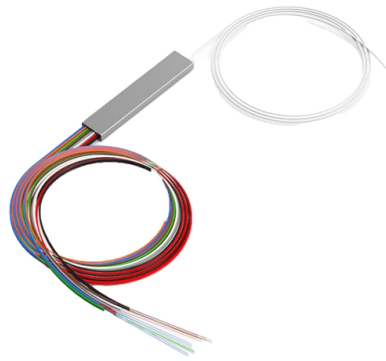


## Optical Module Concept Overview



### Overview

An optical module typically consists of an optical transmitter (TOSA, Transmitter Optical Sub-Assembly, containing a laser diode), an optical receiver (ROSA, Receiver Optical Sub-Assembly, containing a photodetector), functional circuits, and optical (electrical) interfaces. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside. That is, metal medium communication represented by coaxial cables and network cables is gradually being replaced by optical fiber media. Optical modules are a core component of optical fiber communication systems. Its primary function entails converting electrical signals into optical signals. As the core optoelectronic devices operating at the Physical Layer of the OSI model, their.



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Optical module is a key optical fibre communication device, its main function is to convert electrical signals into optical signals and transmit data through optical fibre media.

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#### Optical module

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