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Title: Base station communication equipment optical module

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What are optical modules used for in mobile communication base stations?

In mobile communication base stations, optical modules facilitate interconnections among different devices. They are predominantly utilized for connecting BBU and RRU equipment in 4G networks, using 1.25G, 2.5G, 6G, and 10G optical modules.

What is optical module modulation?

Optical module modulation involves key processes such as the generation, transmission, and reception of optical signals. Its purpose is to achieve high-speed, efficient, and reliable communication by changing the intensity, phase, or encoding method of variable light signals.

What is a 5G optical module?

Optical modules serve as a crucial component of the 5G bearer network, enabling interconnection among devices at each layer. A 5G optical module is used in the 5G fronthaul and mid-backhaul networks, with different speeds such as 25G, 50G, 100G, 200G, and 400G.

What are the main components of an optical module?

An optical module typically consists of an optical transmitting device (TOSA, including a laser) and an optical receiving device (ROSA, including a photodetector). Additionally, it includes functional circuits, a main control circuit board (PCBA), housing, optical (electrical) interface, and other components.

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Used Original Optical Module Base Station Equipment 2G/3G/4G RDH 901 028/1 10KM SMF LR SSR SFP+ Communication Equipment Part

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