

What is the relationship between optical modules and 5G modules



Overview

5G medium transmission is applied in the computer room environment, the transmission distance is 10-40km, and commercial-grade optical modules are usually used. Regarding optical chips, the industry is more optimistic that the 50Gbit/s PAM4 module will become the mainstream application module for mid-haul and future PON network upgrades. At present, in order to support the diversity of services, in the 5G transmission network architecture, fronthaul, midhaul, and backhaul networks may be equally important. Among them, the prequel is from RRU to DU (the distance is generally within 10km, a few scene is within 20km; among them, to deal with the scene with high delay requirements, the transmission. Table 2 lists the mainstream specification requirements for high-speed optical transceiver modules in the 5G transport network. Large bandwidth, small size, low power consumption and low cost have become the basic characteristics of the development of optical module technology. 5G base station interconnection optical modules are mainly upgraded fro.

Article Content

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Because of the high data throughput required for today's "wireless" networking, almost all the links shown between the radio towers and the data center will be implemented with optical ...

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Optical modules are crucial for interconnecting equipment across each layer. 5G Fronthaul primarily uses 25G SFP28 optical modules, supporting eCPRI/CPRI protocols. Available ...

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In recent years, the construction of large-scale data centers has promoted and accelerated the application process of 25Gbit/s commercial-grade optical modules. In comparison, 5G fronthaul ...

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5G construction will drive the rapid growth of demand for telecom optical modules. In the future, 5G national coverage will require the construction of nearly ten million base stations, ...

5G bearer network: its optical module technology trends

Optical modules are the basic building blocks of 5G bearer networks, data center interconnection, and all-optical access networks whose main function is to realize the two-way ...

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