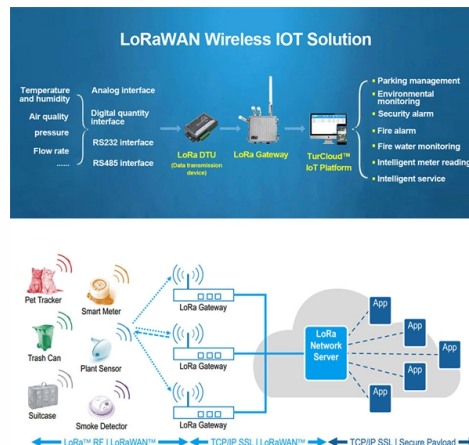


What size optical module does Huijue equipment use for 4G



AI Overview

Huijue 4G equipment typically uses 1.25G, 2.5G, 6G, or 10G optical modules for BBU-RRU connections, often with CWDM color optical modules for efficient fiber utilization.

Overview of 4G Optical Modules

In 4G networks, the connection between the Baseband Unit (BBU) and the Remote Radio Unit (RRU) relies on optical modules and optical fibers. The commonly used optical module sizes for 4G include 1.25G, 2.5G, 6G, and 10G, depending on the required data rate and network design. These modules convert electrical signals from the BBU into optical signals for transmission over fiber and then back into electrical signals at the RRU.

CWDM and Fiber Optimization

Because 4G networks often require multiple RRUs connected over long distances, passive wavelength division multiplexing (CWDM) is used to optimize fiber usage. In this setup, the BBU connects to a CWDM coarse wavelength division multiplexer using CWDM optical modules and OS2 single-mode fiber. The multiplexer then transmits signals to the RRU using one or two optical fibers, allowing multiple channels to share the same fiber and reducing the need for additional fiber cores.

Practical Considerations...

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Contact Us

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