What type of optical module does Huawei BBU use

Article Overview

Huawei optical modules are primarily used with BBUs such as BBU3900 and BBU5900, which connect to RRUs via optical fiber in distributed base station architectures.

BBU Overview

A BBU (Baseband Unit) is the core processing unit in Huawei base stations, responsible for baseband signal processing, control, and transmission management. Huawei BBUs are modular and support multiple subsystems, including baseband processing, power, transmission, interconnection, main control, monitoring, and clock subsystems .

Key BBU Models

o BBU3900: Supports LTE and 3G networks, with multiple boards, ports, and optical interfaces such as CPRI and Iub optical cables. It is designed for centralized or distributed deployment and connects to RRUs via optical fiber .
o BBU5900: Designed for eLTE and LTE networks, it features a modular structure with separate BBU and RRU units, connected through optical fiber. It supports FDD and TDD modes, including industry-specific spectrum like TDD 400 MHz and 1.8 GHz. The distributed architecture reduces feeder loss and allows flexible installation of RRUs on poles or walls .

Optical Module Integration

Huawei optical modules are certified for use with specific BBUs to ensure transmission reliability. Certified modules typically display the HUAWEI label and are verified for functionality with the BBU. Non-certified modules may affect service stability . Optical modules connect BBUs to RRUs using CPRI or AOC cables, enabling high-speed data transmission and minimizing signal loss in distributed deployments .

Deployment Considerations

o Distributed Architecture: BBUs are installed in equipment rooms, while RRUs are deployed closer to antennas. Optical modules link the two units, improving coverage and reducing construction costs .
o Modular Slots: BBUs have multiple slots for boards and optical modules, allowing flexible configuration depending on network requirements .
o Compatibility: Always use Huawei-certified optical modules to ensure proper operation with BBU3900 or BBU5900 units . In summary, Huawei optical modules are designed to work with BBU3900 and BBU5900 units, connecting them to RRUs via optical fiber in distributed base station setups. Proper certification and

modular configuration are essential for reliable network performance.

View and Download Huawei BBU3900 hardware description online. BBU3900 control unit pdf manual download. Also

For details, see the principles for BBU slot assignment in base stations of different RATs. fTable 1 Principles for BBU slot assignment

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Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode

A fiber optic cable must use the same type of optical modules on its two ends. If different types of optical modules are used by a fiber

The BBU houses the UPEU and UEIU for monitoring. Each board has two Boolean input ports and two RS485 input

Hardware description for BBU5900 baseband unit. Details exterior, functions, boards, slot assignments, and specifications.

optical fiber. o If you use an optical fiber with an LC connector on each end, connect TX port on the BBU board to the

The Building Base Band Unit (BBU) HUAWEI BBU3910 is a distributed base station, which is widely used in 3G networks, and fiber

The document describes the hardware structure of the Huawei BTS3900, an indoor macro base transceiver station. It discusses the

BBU5900 Hardware Description: Details on exterior, functions, boards, slot distribution, and specifications for base station engineers.

AAU?RRU?BBU huawei zte base stations new and original ycict 2g 3g lte 5g module ftth and ont olt optical

In this blog,ETU-LINK will talk about 4G base stations and common types of optical modules. The base station can be divided into

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Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

Yes, the Huawei BBU3900 can be remotely managed and monitored. It manages the eNodeB through operation and maintenance

QSFP optical modules are applicable only to BBUs, massive MIMO devices, and radio multiplex units (RMUs), but not to RRUs. In

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