What optical module model does Huawei BBU use



Overview

BBU Quick Installation Guide (V100R005C10_04) (PDF)-ENBBU Quick Installation Guide (V100R005C10_04) (PDF)-EN This document describes how to quickly install.

Key Takeaways

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 BB

U (Baseband Unit) is the core processing unit in Huawei base stations, responsible for baseband signal processing, control, and transmission management.

Huawei BB

Us are modular and support multiple subsystems, including baseband processing, power, transmission, interconnection, main control, monitoring, and clock subsystems.

Key BB

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U ModelsBBU3900: 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. 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

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. Modular Slots: BBUs have multiple slots for boards and optical modules, allowing flexible configuration depending on network requirements.

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.

Article Content

HUAWEI_GSM_R_BTS3900_Hardware_Structure.pdf

It discusses the main components of the BTS3900 including the baseband unit (BBU) and multiple radio frequency units (MRFUd). The BBU consists of boards like the GTMU that control the system and

Huawei BBU3900 Hardware Description

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

DBS5900 Distributed Base Stations — Huawei Enterprise

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The DBS5900 adopts a modular structure, with the baseband unit BBU and remote radio unit RRU deployed separately. The DBS5900 has the characteristics of small size, low power consumption,

Overview of Huawei BBU Models | PDF

The document discusses several BBU models including the BBU3900, BBU3910, BBU5900, BBU5900A, BBU3910A, and BBU3910C. It provides brief descriptions of the features of each board, such as the

Huawei BTS 3900 Hardware Structure

The key points are: - The BTS3900 system consists of the BBU3900 baseband processing unit, MRFU radio frequency unit, and indoor macro cabinet. - The BBU3900 performs baseband signal

HUAWEI BBU5900 (3GPP) 5G DBS5900 Distributed Base Stations

If different types of optical modules are used by a fiber optic cable, performance risks may arise, for example, alarms, bit errors, and interrupted links. Only Huawei-certified optical modules meeting the

Huawei BTS3900 Hardware Overview | PDF | Power Supply

This document provides an overview of the Huawei BTS3900, an indoor macro base transceiver station developed by Huawei. It describes the system''s hardware structure, including the main components

HUAWEI DBS3900 Dual-Mode Base Station Hardware Structure

This describes the Universal BBU Fan Unit Type A (UBFA) module of the BBU3900. The UBFA controls the fan speed and detects the temperature of the fan board.

HUAWEI BBU3900 DESCRIPTION Pdf Download | ManualsLib

USB ports for commissioning using a USB flash drive. FE/GE optical and electrical ports (RJ45, SFP, LC). E1/T1 ports (DB26).

Understanding Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single-mode optical modules are used with single-mode fibers.

What Is an Optical Module and Its FAQs (V300)

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and

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Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

BBU-Base Band Unit in Telecom: Function|Details

BBU also known as base band unit, whose working details and function is to process, modulate, transfer and exchange signals in telecom.

Difference Between AAU, RRU, and BBU

AAU, RRU, and BBU are key components in a telecom network, particularly in modern wireless communication systems like 4G and 5G. Here''s a

Huawei BBU3910 Description

Huawei BBU3910 Description - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Huawei BBU3910 Description

HUAWEI_GSM_R_BTS3900_Hardware_Structure.pdf

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

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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