

# The optical module on bbu



## Overview

The optical module converts electrical signals into optical signals at the transmitter side, transmits them to the remote wireless unit through optical fiber, and then converts the received optical signals into electrical signals at the receiver side, thus realizing high-speed data. The optical module converts electrical signals into optical signals at the transmitter side, transmits them to the remote wireless unit through optical fiber, and then converts the received optical signals into electrical signals at the receiver side, thus realizing high-speed data. Which optical modules are commonly used in 4G base stations?

In this blog, ETU-LINK will talk about 4G base stations and common types of optical modules. The base station can be divided into two modules: the RRU for transmitting signals and the BBU for processing signals. The BBU is small and. This document describes how to quickly install the BBU. • Wear ESD wrist strap or ESD gloves to prevent electrostatic damage to the subrack. • Only when the BBU install in TP48200A and APM30H cabinets, subrack cable claws are configured. Install cable. Optical modules used in Remote Radio Units (RRUs) for CPRI applications are required to support industrial temperature

ranges, primarily because RRUs operate in diverse outdoor environments with extreme temperature variations. CPRI (Common Public Radio Interface) defines the interface relationship. In 4G network, the optical modules used to connect BBU and RRU are mainly Gigabit to 10 Gigabit optical modules; in 5G network, the optical modules used to connect BBU and RRU are mainly 25G rate. Most of the AAU of 5G base stations are deployed outdoors.

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Connect one end of the optical cable to the CPRI0, CPRI1, or CPRI2 port on the GTMU panel of the BBU and the other end to the CPRI\_W port on the RRU. Insert the optical module into the CPRI0, ...



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The transmission carriers connecting BBU and RRU devices are optical modules and optical fibers. In 2/3/4G networks, 10Gbps optical modules are generally enough for CPRI interfaces.



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Optical modules used in Remote Radio Units (RRUs) for CPRI applications are required to support industrial temperature ranges, primarily because RRUs operate in diverse outdoor environments with ...



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1 According to the network planning, the boards in the BBU are inserted in the proper slots and secured. 2 The subrack which is used to install the BBU is steady installed.



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In 5G network, the optical module used to connect BBU and RRU is mainly 25G rate. Here I will talk about the 1.25G SFP optical module and 10G SFP+ optical module used to connect BBU...



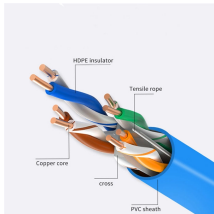
In order to resist harsh environments such as high temperature and low temperature, it is necessary to use industrial-grade optical modules or hardened active optical cables (HAOC). The high-density ...



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In 5G networks, interfaces between bbu and rru, such as cpri (Common Public Radio Interface) or ecpri (Enhanced Common Public Radio Interface), are often used with optical modules.



CPRI modules are designed exclusively for the fronthaul link between a BBU and an RRU in a wireless base station. Their entire design is optimized for this point-to-point, synchronous ...

## Contact Us

For more information, pricing, or custom data center solutions, please contact us:

Website: <https://www.yoahorroenergia.es>

Email: [hello@yoahorroenergia.es](mailto:hello@yoahorroenergia.es)

Phone: +233 54 318 7269

Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

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