

# What optical module should be used at the RRU end



## Overview

In 4G network, the optical modules used to connect bbu and rru are mainly Gigabit to 10 Gigabit optical modules; in 5G network, the interfaces between bbu and rru are such as cpri (Common Public Radio Interface) or ecpri (Enhanced Common Public Radio Interface). The base station can be divided into two modules: the RRU for transmitting signals and the BBU for processing signals. This process ensures stable signal transmission over long distances and in complex environments. 25G SFP optical module adopts the wavelength of 850nm, with an operating. The RRU is a remote radio unit. 2 RRU Cables The RRU cables include the PGND cable, power cable, AISG multi-wire cable, AISG extension cable, CPRI optical cable, RF jumper, and alarm cable. Issue 08 (2009-06-30) Huawei Proprietary and Confidential Copyright © Huawei Technologies Co. It presents the exterior and describes the ports, functions, cable types, connector specifications, and cable connections of the RRU. In 5G networks, CPRI is also upgraded to eCPRI.

## What optical module should be used at the RRU end



RRU3278 Installation Guide 8 Installing RRU Cables  
Figure 8-27 Installing an optical module  
Long-time exposure to the air causes performance exceptions on the optical module.



The optical module provides an interface for optical-electrical conversion, thus enabling transmission through optical fibers between the RRU and other devices.



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 exquisite, with low power consumption, while the RRU is ...



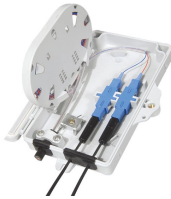
The transmission carriers connecting BBU and RRU devices are optical modules and optical fibers. In 2/3/4G networks, 10Gbps optical modules are generally enough for CPRI interfaces.



Optical Module Type  
Optical modules can be divided into single- and multimode optical modules, which can be distinguished as follows: • The puller of a single-mode optical module is blue and the puller of ...



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 ...



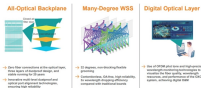
In 5G networks, interfaces between bbu and rru, such as cpri (Common Public Radio Interface) or ecpri (Enhanced Common Public Radio Interface), are often used with optical modules.



When an optical fiber connects a BBU3900/BBU3910/BBU5900 to an RRU, the breakout cables on the BBU side and on the RRU side are 0.34 m (1.12 ft) and 0.03 m (0.098 ft),



In a typical macro cell deployment, CPRI wireless modules serve as a core component of the fronthaul network, connecting RRUs located at the top of towers to BBUs housed in ground-level ...



- The performance of an optical module that is exposed to air for more than 20 minutes may be abnormal. Therefore, you must insert an optical fiber into an unpacked optical module within ...

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