

# How many optical modules should be installed on one RRU



## Overview

The base station can be divided into two modules: the RRU for transmitting signals and the BBU for processing signals. User Guide About This Document About This Document Purpose This document describes the RRU hardware and provides instructions in hardware installation, cable connections, hardware installation check, and hardware maintenance. This document is applicable to RRU3804 and RRU3801E. It also lists vendors or manufacturers of 5G RRH units. The Remote Radio Head (RRH) architecture consists of a baseband unit (BBU) and a remote radio unit (RRU). Product Versions The following table lists the product versions related to this. Ultimately I care about the number of SFP/SFP+ transceivers an RRU is equipped with. I know the RRU-BBU can be connected via either two-fiber with TX and Rx on different fibers, or single-fiber if bi-directional, so let's use the term 'links' instead of 'number of fibers' to keep things simple. Difference in installation and operation of other eRRU products are also described.

## Article Content

### 5G Remote Radio Head (RRH) Explained: Manufacturers & Modules

Explore 5G Remote Radio Head (RRH) basics, internal modules, specifications, and key manufacturers for wireless network deployments.

### RRU Installation and Cable Guidelines

The RRU installation process involves installing three RRUs, connecting antenna ...

### Which Optical Modules Are Commonly Used In 4G Base Stations?

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 ...

### High-Level 5G Architecture Explained: CU, DU, and RRU Roles in ...

It shows how the NGC/EPC, CU, DU and RRU are the functional elements of the RAN stack. Let's breakdown the individual components, the interfaces that connect the components, and ...

### eRRU Quick Installation Guide (V100R005C10\_04) (PDF)-EN.pdf

- The two optical modules connected to the same optical fiber must be of the same specification.
- The performance of an optical module that is exposed to air for more than 20 minutes ...

### RRU Installation and Cable Guidelines

The RRU installation process involves installing three RRUs, connecting antenna jumper cables, power cables, optical cables and grounding cables. Detailed steps are provided for installing each cable ...

### RRU5517t Hardware Description

Explore the Huawei RRU5517t Hardware Description. This guide covers RRU introduction, functions, technical specifications, ports, indicators, cables, and auxiliary devices for SRAN17.1 and later versions.

### 5G Remote Radio Head (RRH) Explained: ...

Explore 5G Remote Radio Head (RRH) basics, internal modules, specifications, and key manufacturers for wireless network deployments.

### Remote Radio Head (RRH) Systems — EITC

Remote Radio Heads (RRH) and Base Band Units (BBU) are connected via fiber optic cables using CPRI or OBSAI protocols, enabling a flexible, high-bandwidth "fronthaul" link.

## Optimize RRU Layout for 5G Towers: Cut Loss, Boost Efficiency

Discover how strategic RRU placement reduces signal loss by 30% and cuts maintenance time by 40%. Learn fiber, power, and thermal best practices for future-proof towers. Get ...

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When the RRU needs to be installed on the ground or rooftop, it supports one-module, two- module centralized, and three-module centralized installation modes. 3.5 Installing the RRU on the Tower ...

#### RRU-BBU connections

(One exception I know of is the NSN FlexiRadio RRU which has three optical ports.) A colleague believes the answer is "1 per attached RF transceiver", which means multiple fiber links ...

## Contact Us

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