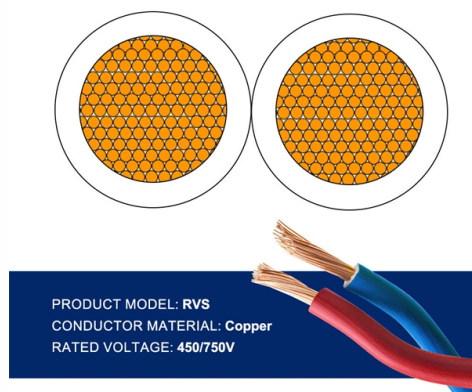


# Why install optical modules in AAU



## Overview

It is recommended that the optical modules be installed on the ground, since there is no anti-falling protection for installing the optical modules on the tower.

## Key Takeaways

Optical modules in an AAU are installed to transmit and receive optical signals between the AAU and the fiber optic network, enabling high-speed, reliable communication.

## Function of Optical Modules

Optical modules serve as the interface between the AAU and the fiber optic cables, converting electrical signals from the AAU into optical signals for transmission over fiber, and vice versa for incoming signals. This allows the AAU to communicate efficiently with the baseband unit (BBU) or central unit (CU) in a mobile network, supporting high data rates and low latency.

## Importance in AAU Operation

**Signal Transmission:** Optical modules enable the AAU to send and receive radio signals processed by the radio units (RUs) over long distances without significant signal loss. **Network Integration:** They allow the AAU to connect seamlessly to the fiber optic backbone, which is essential for 4G and 5G deployments where high bandwidth and low latency are critical. **Reliability and Maintenance:** Installing optical modules before powering on the AAU ensures proper signal routing and protects the system from potential damage during installation.



## Installation Considerations

### During AA

U installation, optical modules are typically installed in the maintenance cavity before connecting the AAU to the pole or tower. This ensures that all optical connections are secure and that the AAU can immediately communicate with the network once powered on. Proper installation also prevents dust or moisture from affecting the optical interfaces.

### Summary

In essence, optical modules are critical for enabling high-speed fiber-optic communication between the AAU and the network, ensuring efficient signal transmission, network integration, and reliable operation of mobile base stations.

## Article Content

AAU5313 Installation Guide (03) (PDF)

It is recommended that the optical modules be installed on the ground, since there is no anti-falling protection for installing the optical modules on the tower.

Installation Guide

Before installing an AAU, you must be familiar with its installation options and installation clearance requirements. This chapter lists the tools and instruments that must be obtained before the

Huawei Technologies Active Antenna Unit : Installation Instructions

AAU3940 Installation Guide About This Document About This Document Overview  
This document describes procedures for installing an active antenna unit 3940 (AAU3940, which is shortened to

AAU3940 Installation Guide | Manualzz

This document describes procedures for installing an active antenna unit 3940 (AAU3940, which is shortened to AAU in this document) and its cables. It also provides the checklists for hardware

AAU3940 Installation Guide

AAU3940 Installation Guide: Detailed instructions for installing the AAU, cables, and auxiliary hardware. Includes checklists for hardware installation.

AAU3902 Installation Guide (09) (PDF)

In AAU cascading scenarios, filling out the recording form is required. Before filling out the recording form, ensure that the RET SN on the antenna nameplate

#### AAU AAU3940 Hardware Maintenance Guide | Manualzz

This guide provides instructions for routine maintenance of the AAU3940, including powering on and off, replacing the AAU, and modules within it, as well as replacing optical modules.

#### HUAWEI AAU3940 HARDWARE MAINTENANCE MANUAL Pdf

It also describes how to replace the AAU, modules in it, and optical modules. Product Version The following table lists the product versions related to this document.

#### Huawei Technologies Active Antenna Unit : User Guide

Replacing an AAU interrupts all the services carried by the AAU and causes alarms. 5 Replacing the Optical Module You must disconnect the fiber optic cable from an optical module before replacing the

Explain the concept of Huawei's Active Antenna Unit (AAU) in 5G

Fiber Optic Connectivity: The AAU is connected to the core network through fiber optic cables. This high-speed and low-latency connection is crucial for transmitting the vast amount of data

#### Typical Application Of 25G Colored Optical Modules In 5G Networks

The number of colored optical modules required in the pre-transmission application of a 5G base station depends on the design characteristics of each base station (see Figure 3 for

#### AAU5613 Installation Guide (02) (PDF)

Key considerations include ensuring that the optical module rates match the CPRI ports, installing cables according to specified configurations (single or two-fiber bidirectional), and avoiding severe

#### Understand AAU, RRU, BBU in one article

In the 5G era, the structure of the base station has undergone new changes, and a new device AAU has appeared. The reason why AAU appeared in 5G is actually because 5G introduced

AAU□RRU□BBU huawei zte base stations new and original ycict

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

Understanding AAU, RRU, and BBU in telecom networks

Difference Between AAU, RRU, and BBU AAU, RRU, and BBU are key components in a telecom network, particularly in modern wireless communication systems

## Installation Guide

7 Preprocessing the AAU Maintenance Cavity Before installing an AAU, take power terminals out of its maintenance cavity and install optical modules.

### AAU3902 Installation Guide (09) (PDF)

Step 1 Lower the pullers of two optical modules, insert one optical module into the CPRI0 port on the AAU and the other one into the CPRI port on the BBU, and raise the

## 5G Network & LTE Fronthaul

5G Fronthaul AAU/DU Most of the AAU of 5G base stations are deployed outdoors. In order to resist harsh environments such as high temperature and low temperature, it is necessary to use industrial

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

