# Troubleshooting BBU optical module faults



## Overview

Sometimes the real problem comes from power supply, optical fiber, RRU connection, transmission link, software configuration or wrong board version.

## Key Takeaways

BBU optical module failures typically occur due to faulty SFP modules, misconfigured transceivers, unstable RRU power, or poor fiber connections, and can be resolved through systematic inspection and corrective actions. Common CausesSFP Module or Transceiver Issues: Incompatible or misconfigured SFP modules can trigger CPRI interface errors. For example, some 2.

67G-SFP-2D transceivers have EEPROM settings that limit bandwidth below the required 2. 4576 Gbps, causing the BBU to fail in establishing a proper link with the RF unit. Fiber or Electrical Connection Problems: Loose or improperly installed optical modules, connectors, or cables between the BBU and RF units can result in transmit/receive faults.

RR

U Power Instability: If the RRU board loses power or experiences voltage fluctuations, it can trigger alarms on the BBU, including optical module faults. Hardware Malfunctions: Faulty BBU interface boards, RF units, or inter-BBU optical modules can also cause these alarms.

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### Troubleshooting Steps

Identify the Main Alarm: Determine whether the primary alarm is the BBU CPRI interface error or RF Unit Maintenance Link Failure, as resolving the main alarm often clears secondary alarms.

### Check SF

P Module Status: Use MML commands (e.g., DSP SFP) to verify the module's operational parameters and ensure compatibility with Huawei requirements. Inspect Fiber Connections: Physically check and reseat fiber cables at both BBU and RF unit ends to ensure proper contact.

### Verify RR

U Power: Confirm stable power supply from the DC distribution unit to the RRU and check for any voltage irregularities. Perform Loopback Tests: Connect RX and TX ports on the BBU and RRU to perform loopback tests, verifying the optical link integrity. Reset or Replace Hardware: If alarms persist, reset the RRU, replace the optical module on the BBU or RRU, or reinstall the original boards as needed.

### Preventive Measures

### Ensure SF

P modules are compatible with the BBU and configured correctly. Maintain secure fiber connections and regularly inspect for wear or damage.

### Monitor RR

U power stability to prevent unexpected resets. Keep firmware and EEPROM settings updated to match network requirements. By following these steps, most BBU optical module failures can be diagnosed and resolved, restoring normal CPRI link operation and RF unit functionality.

## Article Content

Common Huawei BBU Faults and Troubleshooting Guide

Sometimes the real problem comes from power supply, optical fiber, RRU connection, transmission link, software configuration or wrong board version. That is why troubleshooting is important before

BBU Optical Module Transmit/Receive Fault

After combining the RRU log analysis and the alarm of the optical module, the radio frequency maintenance link is triggered by the power-off of the RRU board, as shown in the following screenshot.

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BBU Failure

Check whether the BBU Running/Alarm indicator is steady green and Health Status of the BBU on DeviceManager is Normal. If yes, the procedure is complete.If no, keep the fault environment intact

Common Faults and Troubleshooting for BBU and RRU

This guide will provide an overview of common faults, their symptoms, and troubleshooting steps to resolve issues like network connectivity disruptions and signal problems.

Huawei BBU CPRI Port Troubleshooting & Arrangements

Troubleshooting BBU CPRI interface errors in Huawei equipment. Learn about alarm causes, impact, and handling procedures.

Trouble Shooting For RP3 and BB Bus Related Alarms

The document outlines troubleshooting procedures for various alarm codes related to optical links in a system, specifically focusing on link speed configuration, SFP module power levels, and fiber optic

optical module Troubleshooting and Common Problems

optical module troubleshooting guide covering common faults, compatibility issues, optical link failures, ESD risks, and practical solutions.

How To Clear RF Unit Optical Module Fault | Huawei BBU

This video content about, how to clear RF unit Optical Module Fault in Huawei BBU #HuaweiBBU #AdnanFarooq Description: This alarm is reported when the optical module or electrical...

Infortrend A16E-G2130-4 5.4. Replacing a Faulty BBU, Fault

A BBU consists of a metal bracket, battery cell pack, and a PCB board that connects to the controller module. Each BBU is secured to the subsystem using retention screws.

How to Check SFP Light Levels Using CLI Commands

Learn how to check SFP light levels using CLI commands and DOM telemetry. Understand Rx/Tx optical power readings, interpret SFF-8472 and CMIS standards, and troubleshoot

Optical module common faults and solutions

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Customers in the use of optical modules will more or less encounter a variety of failure problems, such as optical module model selection is correct, the use of jumper is correct and some

Optical Module: The Transmit Optical Power of an Optical Module Is in ...

If so, this fault is often caused by high insertion loss of the connector or the bending of the optical fiber. If the fault persists, replace the optical module to check whether the fault is caused by the optical

Optical Module Not Working? How to Troubleshoot in Minutes!

If your optical module isn''t working properly, how to find and fix the problem? We list 5 main issues to help locate and repair network faults!

BBU Failure

BBU Failure Power Module Failure Emergency Handling Of Multipathing Software Faults Emergency Handling Of Basic Storage Service Faults Emergency Handling Of Value-added Service Emergency

Common Huawei BBU Faults and Troubleshooting Guide

Among these products, Huawei BBU spare parts are one of the most common requests from maintenance companies, system integrators and telecom buyers. Many customers contact us when

Optical Module Failure Diagnosis and Prevention:

A comprehensive guide on Optical Module Failure diagnosis and prevention to maintain network stability through effective troubleshooting,

Optical Module Application: Common Problems & Troubleshooting

Based on typical issues encountered with optical modules in daily switch applications, this document summarizes basic troubleshooting steps for resolving common faults:

Troubleshooting and Repairing Optical Transceiver Failures in

Have you ever experienced an unexpected network outage due to the failure of an SFP/SFP+ optical transceiver? Network outages can bring your ability to communicate and work to a

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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