

What type of cable should be used between the BBU and RRU



Overview

A CPRI cable is a fiber optic cable assembly used to carry fronthaul signals between baseband equipment (BBU) and remote radio equipment (RRU/RRH) in mobile networks, following the Common Public Radio Interface (CPRI) specification. It typically uses duplex fiber connectivity with telecom-grade. Quick Breakdown of Cable Types in RAN Setup (BBU, RRU, Antenna) While working on telecom projects, I always find it helpful to simplify the connections between RAN components. So I decided to write this quick summary ☐☐ : 1. BBU to RRU ☐☐ : - Signal: Digital (CPRI / eCPRI) - Cables: a. It is fiber optic cable, ensuring high-speed and low-latency transmission. CPRI standard is followed by top leading telecom equipment manufacturer like Huawei, Ericsson, Nokia, NEC, ZTE and many more.



Article Content

Mar 04, 2026

What Is CPRI (Common Public Radio Interface)?

The main purpose of CPRI is to allow separation between the radio hardware and baseband processing. This enables flexible deployment, such as locating BBUs in centralized ...

Jan 28, 2026

Understanding RAN Cables: BBU, RRU, Antenna

Quick Breakdown of Cable Types in RAN Setup (BBU, RRU, Antenna) While working on telecom projects, I always find it helpful to simplify the connections between RAN components.

May 02, 2026

Waterproof CPRI Patch Cord Connector Guide: ODVA, FullAXS, ...

Compare ODVA, FullAXS, NSN, IDC and PDLC interfaces for FTTH/CPRI deployments. Learn how to choose IP67/IP68 waterproof patch cords, confirm mating types, cable specs, and ...

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CPRI Cable Function and Details in Telecom

CPRI is called Common Public Radio Interface, is an optical cable whose function is to transfer signals between BBU and RRU in telecom.

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What Powers Base Station Connectivity? Are CPRI Modules the ...

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 ...

Oct 23, 2025

What is Radio Access Network (RAN)?

It is a standard used for communication between the Baseband Unit (BBU) and the Radio Unit (RU). It is fiber optic cable, ensuring high-speed and low-latency transmission.

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CPRI Network Explained: Architecture, Logical ...

This blog will break down the CPRI network structure, look at the master/slave port configuration, and highlight how logical connections make sure ...

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CPRI Cable Guide: How to Choose the Right Fronthaul Cable

A CPRI cable is a fiber optic cable assembly used to carry fronthaul signals between baseband equipment (BBU) and remote radio equipment (RRU/RRH) in mobile networks, following the ...

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Common Public Radio Interface (CPRI)

The use of a CPRI interface run over a single-mode or multi-mode fiber enables the radio equipment to be mounted at the top of a tower very close to the antennas. The BBU and RRH can be ...

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CPRI Network Explained: Architecture, Logical Connections & Role in ...

This blog will break down the CPRI network structure, look at the master/slave port configuration, and highlight how logical connections make sure everything runs smoothly between ...

Dec 21, 2025

How Do BBU and RRU Collaborate Efficiently in Base Stations?

Fiber optic cables form the backbone of today's fronthaul networks, allowing for high bandwidth and minimal latency when connecting BBUs to RRUs.

Contact Us

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