

The bandwidth of the ECPRI optical module is



Overview

Single Fiber 25G Fronthaul SFP28 Module (Tx/Rx 1270/1330nm, 8. -45 to 85C, LC Connector) 1270 nm. This article examines their architectural differences, performance implications (bandwidth, latency, transport), functional-split considerations, and why eCPRI is increasingly adopted in 5G RAN deployments. What is CPRI?

CPRI (Common Public Radio Interface) defines a specification for transporting. These changes impose new demands on optical modules to meet the high bandwidth and distance requirements associated with key links in the 5G network architecture. Furthermore, the refer other ipment (see Figure 1). BIDI-25GFH-SFP28-20AI is an Industrial Temperature Tx:1270nm Rx:1330nm BIDI 25GE LR 20km eCPRI (enhanced CPRI) / CPRI Fronthaul Multi-Vendor. eREC and eRE.) between eCPRI nodes in real-time for control/configuratio eCPRI node. any "side" of the interface. Now the BBU and RRU can be separated by up to 20 km of high-performance, high-throughput fiber-optic cabling.



Article Content

Mar 02, 2026

Optical Module Solutions for 5G& 5.5G Network Deployment

The need for higher base station density in 5G networks drives the demand for high-speed optical modules, making 25G/100G modules the preferred choice for fronthaul networks. The ...

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eCPRI Specification V1

The eCPRI specification supports 5G and enables increased efficiency in order to meet the needs foreseen for 5G Mobile Networks. In contrast to CPRI, the eCPRI specification supports positioning of ...

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Choosing an eCPRI fiber module for 5G fronthaul links

Learn how to select an eCPRI fiber module for 5G fronthaul, map reach and power needs to optics specs, and avoid common compatibility failures.

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eCPRI Overview: Common Public Radio Interface

The C& M information flow will be considered as non-time-critical and utilize a small part of the total bandwidth between eCPRI entities. The majority of this information flow will be considered as ...

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eCPRI Overview

The usage of eCPRI message type "One-Way delay measurement" regarding which node initiates a transmission, the frequency of measurements, response deadline, etc. is vendor specific.

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Understanding the CPRI Specification and Its Successor, eCPRI

eCPRI also aims to reduce the required bandwidth by tenfold and allow the required bandwidth to scale flexibly with the user plane traffic for greater utilization efficiency.

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MSA Compatible BIDI 25G eCPRI SFP28 Module

BIDI-25GFH-SFP28-20AI is Multi-Vendor MSA Compatible SFP28 BIDI 25G eCPRI Transceiver supporting 8.5-28.1 Gbps data rate in 20km over Single-Mode Fiber (SMF).

Apr 07, 2026

CPRI vs eCPRI: A Technical Comparison of Fronthaul Interfaces

eCPRI dramatically reduces fronthaul bandwidth requirements compared with CPRI by leveraging functional split and packet-based transport. For instance, it is often cited that eCPRI can ...

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1310NM DFB, CPRI/ECPRI (24.33GBPS Fiber Optic Transceiver ...

Developed to meet the evolving demands of the next-generation networks, eCPRI enhances the traditional CPRI (Common Public Radio Interface) by facilitating better bandwidth utilization, lower ...

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