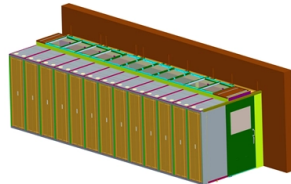


# What optical module should IRU8846 use



## Overview

DUW1101 KDU 127 174/1 IRU8846 KRC 161 754/2 NCD 901 65/1 Type:Fiber Optic Transceivers;Network:5 g;Place of Origin:CN;Model Number:DUW1101;Warranty Time:1.

## Key Takeaways

The IRU8846 typically uses SFP or SFP+ optical modules compatible with CPRI/eCPRI interfaces for high-capacity indoor deployments. IRU8846 OverviewThe Ericsson KRC161754/2 IRU8846 is an indoor radio unit designed for multi-band, multi-operator indoor networks. It connects to baseband units via standard interfaces such as CPRI or eCPRI, supporting high-capacity data transmission in enterprise, campus, or public venue environments.

Its compact and modular design allows multiple remote antenna units to be deployed per IRU, which requires reliable optical connectivity.

## Optical Module Requirements

To interface with the IRU8846, the optical module must meet the following criteria:  
Form Factor: SFP or SFP+ modules are commonly used for indoor radio units due to their compact size and compatibility with high-speed serial interfaces. Data Rate: The module should support the data rate required by the CPRI/eCPRI link. For example, SFP+ modules typically support 10 Gbps, which aligns with many CPRI/eCPRI configurations.

**Wavelength and Fiber Type:** Single-mode fiber (SMF) is generally preferred for longer indoor runs, while multi-mode fiber (MMF) can be used for shorter distances. The module's wavelength (e.g., 1310 nm or 1550 nm) should match the fiber type and link budget. **Digital Diagnostic Monitoring (DDM):** Modules with DDM allow real-time monitoring of optical power, temperature, and voltage, which is useful for maintaining network reliability.

### Recommended Module Types

Based on the IRU8846's interface and indoor deployment requirements, the following optical modules are suitable: **SFP+ 10GBASE-ER/LR:** For single-mode fiber connections up to 10 km, suitable for enterprise or campus links. **SFP+ 10GBASE-SR:** For multi-mode fiber connections up to 300 meters, ideal for short indoor runs. **Modules with DDM support:** Ensures monitoring of optical parameters for stable operation.

### Summary

For the IRU8846, SFP or SFP+ optical transceivers that support the required CPRI/eCPRI data rates and match the fiber type (single-mode or multi-mode) are recommended. Choosing modules with DDM capability enhances operational reliability and simplifies maintenance. Always verify the module's wavelength and link distance against the deployment scenario to ensure optimal performance.

### Article Content

DUW1101 KDU 127 174/1 IRU8846 KRC 161 754/2 NCD 901 65/1

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ERICSSON IRU 8846 KRC 161 754/2 5G BBU

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Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional structure includes the following parts, as shown in Figure 1-2, which

### KRC161754/2 IRU 8846

Ericsson KRC161754/2 IRU8846 Product Overview The Ericsson KRC161754/2 IRU 8846 is an indoor radio unit (IRU) designed for integration into the Ericsson Radio System, enabling multi-band, multi

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