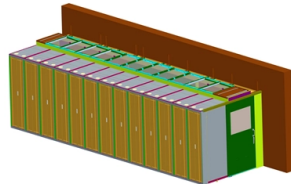


What optical module should IRU8846 use



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

Type:Fiber Optic Transceivers;Network:5 g;Place of Origin:CN;Model Number:DUW1101;Warranty Time:1 Year|Alibaba

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Indoor Radio Unit

Multi-band, multi-operator and multi-vendor support. With all Ericsson Radio System software and hardware. Up to 70% more energy efficient than Active DAS. The Indoor Radio Unit, which runs on

KRC161754/2 IRU 8846

It supports connection to baseband and is optimized for high-capacity indoor deployments requiring macro-level functionality in a smaller form factor. • Provides full radio functionality in an indoor unit,

IRU 8846 Datasheet, PDF

IRU 8846 Datasheet. Part #: IRU1010. Datasheet: 95Kb/6P. Manufacturer: International Rectifier. Description: 1A LOW DROPOUT POSITIVE ADJUSTABLE REGULATOR. 441 Results. Datasheet:

ERICSSON IRU 8846 KRC 161 754/2 5G BBU

This supplier mainly exports to the United States, Germany, and France, offers design-based customization services, and is an OEM manufacturer for well-known brands. ERICSSON IRU 8846

How to Choose Optical Modules Correctly?

Optical modules are pivotal components in optical fiber communication systems, operating at the physical layer—the foundational level of the OSI model. Their primary role is to facilitate

IRU 8846

AI instantly answers questions about IRU 8846's overview, technical specifications, replacement part information, and more.

Understanding Optical Modules: Working Principles, Structures, and ...

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems. Learn about key indicators such as

Optical module design resources | TI

Whether you are creating a 100-Gbps or 400-Gbps, small form-factor pluggable (SFP) module, SFP+ transceiver, XFP module, CFP, X2/XENPAK module or other advanced fiberoptic module, we have

Understanding Optical Modules: A Comprehensive Guide

Optical Module Basics: Understanding the Core ConceptsOptical modules are compact devices that convert electrical signals into optical signals and vice

Designing a Module for High-Speed Optical Communication

For the 400G/200G/100G optical modules that are widely used in data communication and fiber-optic backbone infrastructures, MPS provides a 5V power module solution with smaller size and improved

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules convert electrical signals into optical signals, which can travel long distances

Things You Need to Know About Optical Modules and Wavelengths

Introduction What are optical modules used to build a campus network? What are differences between various optical modules? How should we select optical modules? You will get

Understanding Optical Modules: Types and Troubleshooting Guide

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

What is an optical module? Optical module wiki

An optical module, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data communications applications. Transceiver

What Are the Key Parameters of Optical Modules

Understand the key parameters of optical modules, including transmission rate, distance, wavelength, and fiber compatibility, for better

Contact Us

Continue your research online:

Website: <https://cjcconsultants.co.za>

Technical inquiry: <https://cjcconsultants.co.za/contact.html>

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

