Marine Vessel Communication FHSS Ship mount RF radio with 7ms 2.5MHz/hop Latency and IFS Compatibility

Our Product Introduction

Basic Information

- Brand Name: ZKmanet
- Certification: CE,FCC,ROHS
- Model Number: ZKmanet9304
- Minimum Order Quantity: 2 pieces
- Packaging Details: carton
- Delivery Time: 1-4weeks
- Supply Ability: 3000pieces/month

Product Specification

- Encoding: H.264
- Power: High Power
- Dimensions: 2U (483*390*89mm)
- Weight: 12.5 Kg
- Receiver Sensitivity: -100dBm
- Channel Bandwidth: 2.5/5/10/20MHz,20MHz Typical
- Range: Long Range
- Modulation Type: BPSK/QPSK/16QAM/64QAM (adaptive)
- Highlight: **7ms Ship mount RF radio**, **IFS Compatibility Ship mount RF radio**, **2.5MHz/hop Ship mount RF radio**

More Images

Product Description

Product Description:

The Ship Mounted Data Link product is a cutting-edge communication system designed for long-range applications. This advanced system utilizes a unique RF Waveform technology known as TDD-COFDM + 2T2R, providing exceptional performance and reliability in challenging maritime environments.
With a range classified as Long Range, this Ship Mounted Data Link product ensures seamless and secure communication over extensive distances, making it ideal for various maritime operations.
The dimensions of this innovative system are compact and space-efficient, with a size of 2U (483*390*89mm). This compact design allows for easy integration into existing ship systems without taking up excessive space or adding unnecessary weight.
One of the key features of this Ship Mounted Data Link product is its advanced Frequency Hopping capability. By utilizing Frequency Hopping technology, the system can rapidly switch between frequencies within the 1300-1500MHz range (70MHz-6GHz Customizable), ensuring secure and interference-free communication in dynamic maritime environments.
The system's Latency is impressively low, with a latency of 7ms@2.5MHz/hop. This low latency ensures real-time communication and data transmission, critical for mission-critical maritime operations.
Equipped with FPGA Radio technology, this Ship Mounted Data Link product offers enhanced flexibility, security, and performance. The FPGA Radio technology allows for efficient signal processing, adaptability to changing operational requirements, and robust protection against cyber threats.
In conclusion, the Ship Mounted Data Link product is a state-of-the-art communication system tailored for maritime applications. With its Long Range capability, advanced RF Waveform technology, compact dimensions, Frequency Hopping feature, low latency, and FPGA Radio technology, this product sets a new standard for ship-mounted communication systems.

Features:

Product Name: Ship Mounted Data Link
Throughout Rate: Up To 28Mbps@10MHz & 56Mbps@20MHz
Core Technology: MESH FPGA
IFS: Support
Channel Bandwidth: 2.5/5/10/20MHz, 20MHz Typical
Receiver Sensitivity: -100dBm

Technical Parameters:

Range	Long Range
RF Waveform	TDD-COFDM + 2T2R
Frequency	1300-1500MHz (70Mhz-6Ghz Customizable)
Channel Bandwidth	2.5/5/10/20MHz,20MHz Typical
Power	High Power
Latency	7ms@2.5MHz/hop
Dimensions	2U (483*390*89mm)
Frequency hopping	Support
Working Temperature	-40ºC~+70ºC
Receiver Sensitivity	-100dBm

Applications:

ZKmanet9304 Ship Mounted Data Link is a cutting-edge product designed for ship communication applications. With its exceptional features and specifications, this product is ideal for various occasions and scenarios.
One of the primary product application occasions is ship-to-ship communication. The ZKmanet9304 is specifically optimized for ship mount radio usage, enabling seamless and reliable data exchange between multiple vessels at sea.
Another key scenario where the ZKmanet9304 excels is in creating a MESH RF radio network on ships. This capability allows for efficient communication within the ship and with other vessels in the vicinity, enhancing overall operational efficiency and coordination.
Furthermore, the FHSS Ship mount RF radio feature of the ZKmanet9304 makes it well-suited for applications requiring frequency hopping support. This ensures secure and interference-free communication in dynamic maritime environments.
Originating from China, the ZKmanet9304 is built to withstand harsh marine conditions, with a working temperature range of -40ºC to +70ºC. This resilience makes it an ideal choice for ships operating in extreme weather conditions.
The product's frequency range of 1300-1500MHz (70Mhz-6Ghz Customizable) offers versatility in communication options, while the support for various modulation types such as BPSK, QPSK, 16QAM, and 64QAM ensures adaptability to different communication requirements.
With compact dimensions of 2U (483*390*89mm), the ZKmanet9304 can be easily integrated into ship communication systems without occupying excessive space.

Zhongke Lianxun (Shenzhen) Technology Co., Ltd

+86 13266718951 Info@chinamanet.com zkmanet.com

203-B161, Block B, Garden City Digital Building, No.1079 Nanhai Avenue, Yanshan Community, Merchants Street, Nanshan District, Shenzhen, China