

20MHz Typical Channel Bandwidth Ship Mounted Data Link with Frequency Hopping and IFS Support

Our Product Introduction

for more products please visit us on zkmanet.com

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

- Power: High Power
- RF Waveform: TDD-COFDM + 2T2R
- Throughout Rate: Up To 28Mbps@10MHz & 56Mbps@20MHz
- IFS: Support
- Core Technology: MESH FPGA
- Working Temperature: -40°C~+70°C
- Range: Long Range
- Dimensions: 2U (483*390*89mm)
- Highlight: **Frequency Hopping Ship Mounted Data Link,
20MHz Ship Mounted Data Link,
IFS Support Ship Mounted Data Link**



More Images



Product Description

Product Description:

One of the key attributes of the Ship Mounted Data Link system is its exceptional Receiver Sensitivity of -100dBm , ensuring excellent signal reception even in challenging maritime environments. This high sensitivity allows for reliable communication over long distances, making it ideal for long-range maritime operations.

Equipped with FHSS DSSS Radio technology, the Ship Mounted Data Link product offers secure and interference-resistant communication, essential for maintaining connectivity in dynamic maritime scenarios. The use of Frequency-Hopping Spread Spectrum (FHSS) and Direct Sequence Spread Spectrum (DSSS) techniques enhances the system's resistance to signal interference and ensures reliable data transmission.

As a Ship Mount Radio system, this product is specifically designed to be mounted on naval vessels, providing seamless integration and reliable performance in maritime environments. Its rugged construction and durable components make it well-suited for the harsh conditions at sea, ensuring continuous operation even in challenging weather conditions.

The Ship Mounted Data Link product supports a wide range of Modulation Types, including BPSK, QPSK, 16QAM, and 64QAM with adaptive capabilities. This flexibility allows the system to adjust its modulation scheme based on signal conditions, optimizing data transmission efficiency and reliability. The adaptive modulation feature ensures high data throughput and reliable communication performance, essential for mission-critical maritime operations.

With a high Throughput Rate of Up To $28\text{Mbps}@10\text{MHz}$ and $56\text{Mbps}@20\text{MHz}$, the Ship Mounted Data Link system delivers high-speed data transmission capabilities, enabling real-time information exchange and data sharing between naval vessels and shore-based command centers. This high throughput rate ensures rapid data transfer and supports the transmission of large volumes of data, critical for modern naval operations.

Furthermore, the Ship Mounted Data Link product utilizes H.264 Encoding technology, a widely used video compression standard that enables efficient data encoding and transmission. The use of H.264 encoding ensures optimal utilization of bandwidth and storage resources, delivering high-quality video streams and minimizing data transmission overhead.

In conclusion, the Ship Mounted Data Link system is a state-of-the-art communication solution tailored for maritime applications, offering exceptional performance, reliability, and security. With its advanced features, including FHSS DSSS Radio technology, long-range capabilities, adaptive modulation, high throughput rates, and H.264 encoding, this product is well-suited for naval vessels requiring robust data transmission capabilities in challenging maritime environments.

Features:

Product Name: Ship Mounted Data Link

Power: High Power

Core Technology: MESH FPGA

Range: Long Range

RF Waveform: TDD-COFDM + 2T2R

Frequency hopping: Support

Technical Parameters:

Weight	12.5 Kg
Working Temperature	$-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$
Receiver Sensitivity	-100dBm
Range	Long Range
Throughput Rate	Up To $28\text{Mbps}@10\text{MHz}$ & $56\text{Mbps}@20\text{MHz}$
Modulation Type	BPSK/QPSK/16QAM/64QAM (adaptive)
Power	High Power
Frequency hopping	Support
Dimensions	2U (483*390*89mm)
Channel Bandwidth	2.5/5/10/20MHz, 20MHz Typical

Applications:

ZKmanet Ship Mounted Data Link product (Model ZKmanet9304) is a cutting-edge communication system designed for use in maritime environments. With a weight of 12.5 Kg, this product is lightweight yet powerful, making it ideal for ship installations. Originating from China, ZKmanet9304 is equipped with advanced technology, including MESH FPGA, ensuring reliable and efficient data transmission. One of the key features of ZKmanet9304 is its frequency range of 1300-1500MHz, with the ability to be customizable from 70MHz to 6GHz. This wide frequency range enables frequency hopping, a crucial capability for secure and interference-resistant communication in dynamic maritime settings. The product also supports IFS (Intermediate Frequency Selection), further enhancing its adaptability to various operational scenarios.

Equipped with MESH RF radio technology, ZKmanet9304 offers a high throughput rate of up to 28Mbps at 10MHz and 56Mbps at 20MHz . This high data rate is essential for transmitting large volumes of information quickly and efficiently, making it suitable for tasks that require real-time data exchange.

The Ship Mounted Data Link product from ZKmanet is suitable for a wide range of application occasions and scenarios in the maritime sector. It can be used for ship-to-ship communication, ship-to-shore data transmission, remote monitoring, surveillance, and more. Whether deployed on naval vessels, commercial ships, or research vessels, ZKmanet9304 ensures reliable connectivity and secure data exchange.

In summary, ZKmanet Ship Mounted Data Link (Model ZKmanet9304) is a versatile and reliable communication solution for maritime environments. With its advanced technology, frequency hopping capability, and high data throughput rate, this product is well-suited for various maritime applications, providing seamless and secure connectivity for ship-based operations.

ZKMANET 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