Foxtech

VDLINK OFDM DB30 600MHz 1.4G Dual-Band Frequency Hopping Video/Data Transmission System

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$4,399.00

SKU: 2502142
Weight: 1.00 KGS

Quantity:

⌄ 1 ⌃

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Description ⌃

VDLINK OFDM DB30 is a TDD bi-directional dual-band wireless transmission device that seamlessly integrates both video and data communication. Designed for high-performance, it features dynamic frequency selection to automatically detect and avoid interference, ensuring a stable and reliable connection.
The device utilizes multi-band technology and frequency hopping to further enhance its ability to maintain uninterrupted transmission, even in challenging environments.
With real-time interference detection, adaptive bitrate control, and automatic retransmission, the system guarantees high anti-interference and superior resistance to multipath issues.
These capabilities combine to provide low latency transmission with exceptional stability and reliability, making it ideal for demanding applications like aerial surveillance, remote inspections, and real-time video streaming.

This wireless Video & Data Transmitter is ideal for firefighting, inspection, monitoring, and other applications. In optimal line-of-sight air-to-ground conditions, the transmission range can reach 30KM.

Features:
- Dual-Band Transmission: Supports independent frequency hopping for uplink and downlink.
- Long-Range Transmission: Achieves 30km+ line-of-sight transmission with a 4Mbps data stream.
- High Bandwidth Support: Maximum transmission rate of 23.9Mbps @ 20MHz.
- Automatic Frequency Selection: Detects interference in real time and selects the optimal frequency.
- Automatic Retransmission: Ensures data reliability by retransmitting burst error packets.
- Adaptive Bitrate Control: Dynamically adjusts modulation based on signal quality.
- Automatic Power Control: Adjusts transmit power for close-range operation to reduce power consumption.
- Automatic Antenna Selection: Selects the best antenna based on real-time obstruction detection.
- Dynamic Uplink & Downlink Allocation: Automatically adjusts bandwidth distribution based on data flow.
- Frequency Pairing Function: Supports software-based and hardware button-based frequency pairing.
- Utilizes TDD+FDD for communication transmission.

Your Purchase Includes:
1× VDLINK OFDM DB30 Air Unit
1× VDLINK OFDM DB30 Ground Unit
2× 30cm J30J-15pin Cables

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1× 3m Omni-Directional Antenna Extension Cable
1× 13dBi Flat Panel Directional Antenna
1× 4m Directional Antenna Extension Cable
1× 3m Mounting Bracket + Hand Crank + U-Bolt Kit

VDLINK OFDM DB30 Dual-Band Video/Data Transmission System

Supports 600MHz/1.4GHz dual-frequency with independent uplink & downlink frequency hopping, ensuring stable, uninterrupted transmission even in challenging environments.

600MHz/1.4GHz
Dual-frequency

30 KM
Transmission Distance

Uplink & Downlink
Independent Frequency-hopping

Automatic Interference
Detection

Automatic Interference Detection & Adaptive Frequency Selection

Equipped with 600MHz/1.4GHz dual-frequency and OFDM dynamic frequency optimization, the system automatically detects interference and intelligently selects the optimal frequency band. Independent uplink & downlink frequency hopping ensures uninterrupted, high-quality communication, even in complex environments.

600M & 1.4G Dual-Band Auto Frequency Hopping with Seamless Switching

Four Operating Modes:
Both uplink and downlink on 1.4G
Both uplink and downlink on 600M
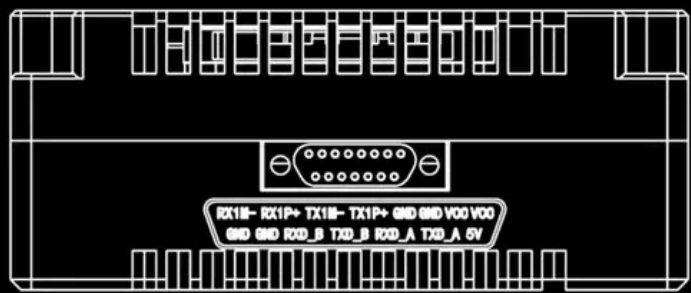Uplink on 1.4G, downlink on 600M
Uplink on 600M, downlink on 1.4G

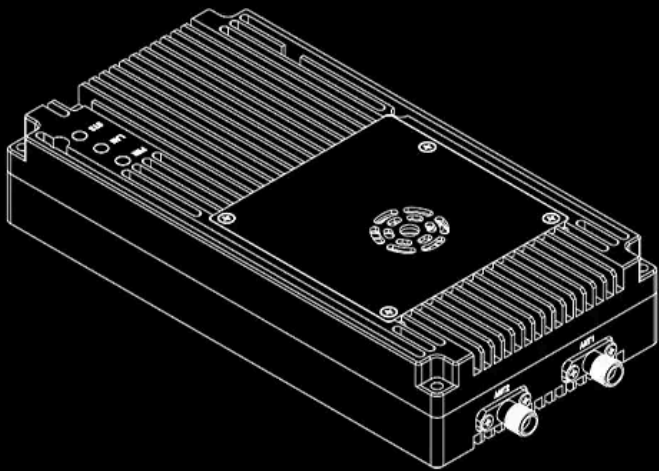**Frequency Hopping Ranges:**
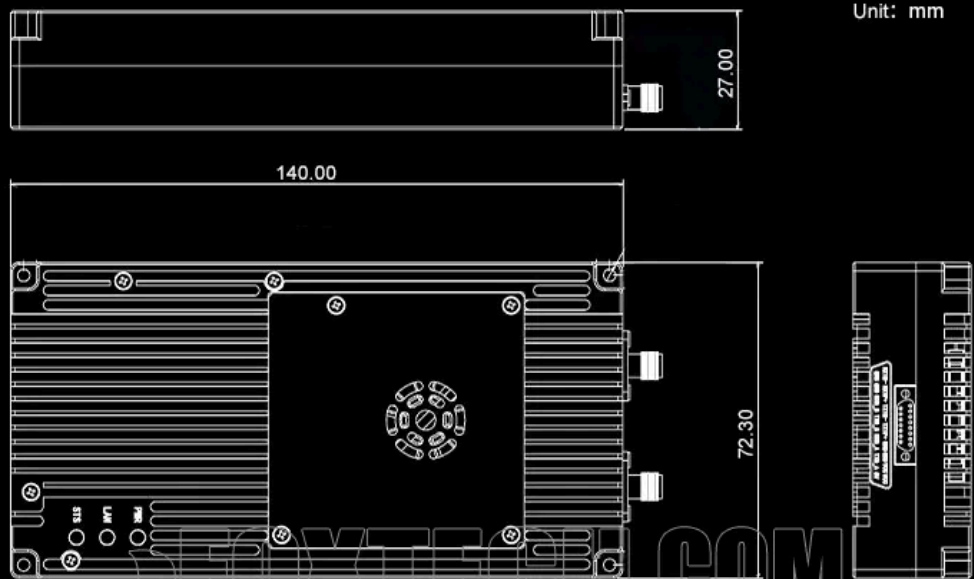600M: 566-678MHz
1.4G: 1350-1470MHz

Versatile Applications

UGV

Robot

Camera

Mobile Terminal

Ground Unit

PC

UAV

Product interface definition

Linear order	Pin name	Interface definition	Interface description	Signal direction
1	VCC	Power DC 9~26V	Power positive	I
2	VCC		Power positive	I
3	GND		Power negative	I
4	GND		Power negative	I
5	TX1P+	Ethernet*1	TX+	O
6	TX1M-		TX-	O
7	RX1P+		RX+	I
8	RX1M-		RX-	I
9	Reserve	Reserve	Reserve	IO
10	TXD_A	Serial port 1 RS232/TTL	Serial port 1 TX	O
11	RXD_A		Serial port 1 RX	I
12	SBUS /TXD_B	Serial port 2 SBUS/TTL/RS232 (note 4;5)	SBUS output(air)	IO
13	SBUS /RXD-B		SBUS input(ground)	IO
14	GND		Serial port 2 ground	O
15	GND	ground	Serial port 1 ground	O

Unit：mm

1× VDLINK OFDM DB30 Air Unit

1× VDLINK OFDM DB30 Ground Unit

2× 2.5dBi Small Fiberglass Antennas

2× 1m Small Fiberglass Antenna Extension Cables

1× 3m Omni-Directional Antenna Extension Cable

2× 30cm J30J-15pin Cables

1× 4m Directional Antenna Extension Cable

1x All-in-one Ground Terminal Antenna Kit

Specification

Item	Description
Equipment Type	VDLINK OFDM DB30
Working Frequency	566-678MHz & 1350-1470MHz (Customizable)
RF Channel	2T2R
Transmission Power	33dBm (2W)
Transmission Distance	Air to Ground 30KM
Channel Bandwidth	10MHz/20MHz
Modulation Mode	QPSK/16QAM
Maximum Rate	23.9Mbps @ 20M
AES	AES256
Transmission Delay	≤ 10ms
RF Interface	SMA *2
Device Interface	Ethernet x1, TTL/RS232 x1, TTL x1/RS232 x1/SBUS x2
Power Consumption	≤ 25W @ 4Mbps (Air), ≤ 10W @ 1Mbps (Ground)
Dimension	150mm * 72.3mm * 27mm
Weight	340g
Working Voltage	DC 9~26V, Typical Value: +12V @ 3A
Working Temperature	-40~+70℃

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VDLINK OFDM TDD Bidirectional Video/Data Transmission System

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VDLINK OFDM Series MESH Networking Video/Data Link

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VDLINK OFDM Series MESH Networking Video/Data Transmission System

$6,599.00 – $32,099.00

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VDLINK SN40 TDD Bi-directional Video/Data Transmission System

$3,685.00 – $4,827.00

★ ★ ★ ★ ★

CHOOSE OPTIONS

LEAVE A MESSAGE

If you have any questions about our products or services, feel free to reach out to customer service team.

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Control System

Battery

UAV Equipment

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