



Home > UAV Equipment > Accessory > Video & Data Transmitter > VDLINK OFDM TDD Bidirectional Video/Data Transmission System



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VDLINK OFDM TDD Bidirectional Video/Data Transmission System

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Pricing Available on Inquiry

SKU: S240910

Weight: 2.00 KGS

Version: Required

- 100km
- 150km
- 200km
- 300km
- 100km Intergrated Version I
- 100km Intergrated Version II
- 150km Intergrated Version I
- 150km Intergrated Version II
- 200km Intergrated Version I
- 200km Intergrated Version II

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Description

Note: The 300km version is not available in an integrated version due to size limitations.

The VDLINK OFDM TDD Bidirectional Video/Data Transmission System is a series of self-developed TDD bidirectional video and data transmission devices. It features real-time interference detection, adaptive frequency selection, adaptive bit rate, automatic retransmission, and automatic power control, significantly improving multipath resistance, interference resistance, reliability, stability, and low latency. This product is ideal for firefighting, inspection, monitoring, and other scenarios, offering four transmission distance options under optimal line-of-sight conditions: 100km, 150km, 200km, and 300km.

AirLink is an integrated TDD bidirectional video/data ground receiving system. AirLink comes in two structural models: AirLink-I and AirLink-II. Both devices support various interfaces, including Wi-Fi, Ethernet, serial, SBUS, and asynchronous RS422. They also support independent battery packs and external power supplies, making them easy to assemble and disassemble. AirLink-I and AirLink-II are available in different transmission power versions, ranging from 2W to 20W, and come equipped with features such as real-time environmental noise detection, adaptive bit rate, automatic frequency selection, automatic retransmission, automatic

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8W/10W, and 100km with 20W power.

AirLink-II uses a combination of directional and omnidirectional antennas, providing better transmission performance compared to AirLink-I. Under line-of-sight conditions, AirLink-II can support a maximum transmission distance of 60km with 2W power, 100km with 5W/8W power, 150km with 10W power, and 200km with 20W power.

Key Features:

- Long-distance transmission
- High bandwidth transmission
- Automatic relay transmission
- Multi-interface design: Equipped with dual Ethernet ports and four serial ports, supporting RS232/TTL/RS422/SBUS.
- Adaptive frequency selection: Automatically detects interference signals and selects the optimal frequency point in real time.
- Automatic retransmission: Automatically retransmits burst error data to enhance data reliability.
- Adaptive bit rate: Automatically adjusts modulation based on real-time signal quality.
- Automatic power control: Adjusts transmission power for close-range communication to reduce power consumption.
- Automatic antenna selection: Automatically selects the optimal antenna for transmission based on obstructions.
- Dynamic up/downlink allocation: Automatically adjusts the uplink and downlink bandwidth ratio based on the actual data volume.
- Multi-unit coexistence: Supports up to six sets of devices operating on fixed frequencies simultaneously.
- Frequency pairing function: Allows frequency pairing via software configuration or hardware button.

Your Purchase Includes:

- 1x Ground Unit
- 1x Air Unit
- 2xJ30J-25pin cable
- 2x 2.5dBi Little glue stick antenna
- 2x 1m small antenna extension cable
- 1x All-in-one ground terminal antenna kit

AirLink-I

- 1x AirLink-I Ground Station
- 1x Lemo-4PIN External Power Cord
- 1x Lemo-7PIN Serial Cable
- 1x Lemo-8PIN SBUS Cable
- 1x Lemo-8PIN Network Cable
- 2x 1350-1470MHz 6dBi Fiberglass antenna
- 1x Mounting Bracket+Square clip
- 1x 4S Battery Pack (Optional)

AirLink-II

- 1x AirLink-II Ground Station
- 1x Lemo-4PIN External Power Cord
- 1x Lemo-26PIN Data Cable
- 1x 1350-1470MHz 6dBi Fiberglass antenna
- 1x Mounting Bracket+Square clip
- 1x 4S Battery Pack (Optional)

Air Unit

- 1x Air Unit
- 2x 1350-1470MHz 2.5dBi little fiberglass antenna
- 2x 1m Small antenna extension cable
- 1x J30J-25PIN cable
- 1x XT30 to XT60 power cord (Except SN-40)



FOXTECH VDLINK OFDM TDD

Bidirectional Video/Data Transmission System

The VDLINK OFDM TDD bidirectional video/data transmission system is ideal for firefighting, inspection, monitoring, and other scenarios, offering four transmission distance options under optimal line-of-sight conditions: **100km, 150km, 200km, and 300km.**



1350~1470 MHz
Working Frequency



100/150/200/300KM
Transmission Distance



≤ 10 ms
Transmission Delay



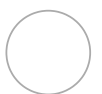
Automatic Interference
Detection



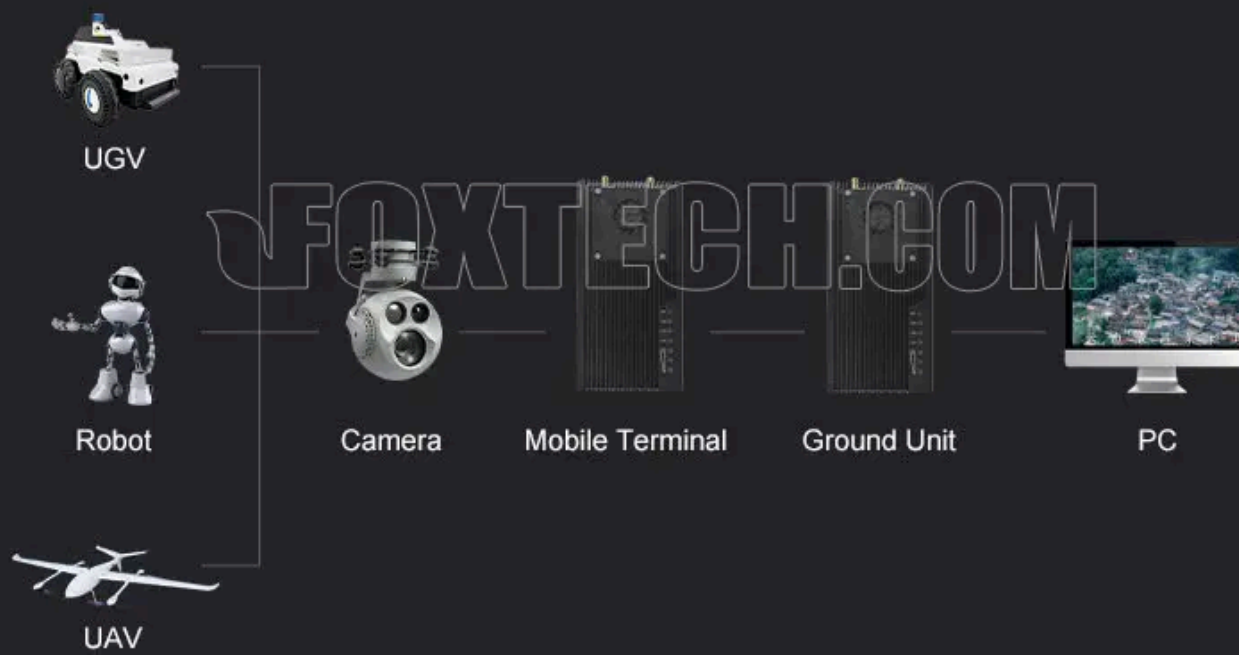
Adaptive Frequency
12 Frequency Points



Automatic
Retransmission



Versatile Applications



Application



Surveillance and Security

Cover large areas that are difficult or dangerous for human patrols, providing live feeds to control centers.



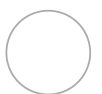
Search and Rescue Operations

To locate missing persons in remote or challenging terrains.

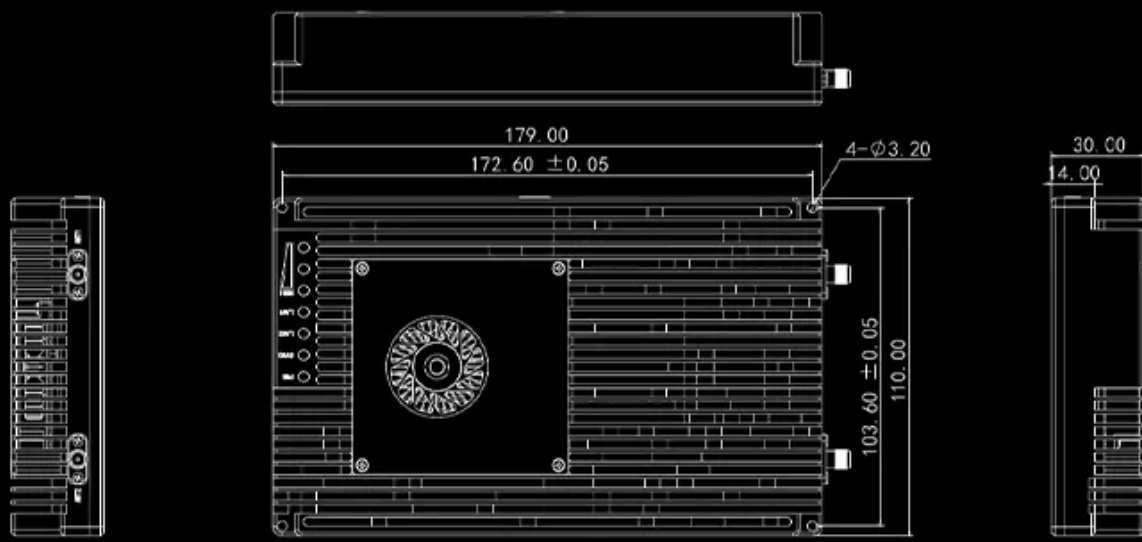


Scientific Research

Access remote, dangerous, or otherwise inaccessible areas to gather valuable data and imagery.



Standard Version



2x OFDM Video/Data Module



2x J30J-25pin



1x Directional Antenna
Extension Cable



2x 2.5dBi Small Fiberglass
Antenna



2x Small Antenna
Extension Cable



1x 13dBi Directional Antenna
& Antenna Stand

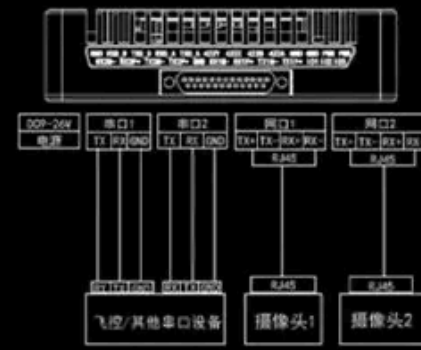
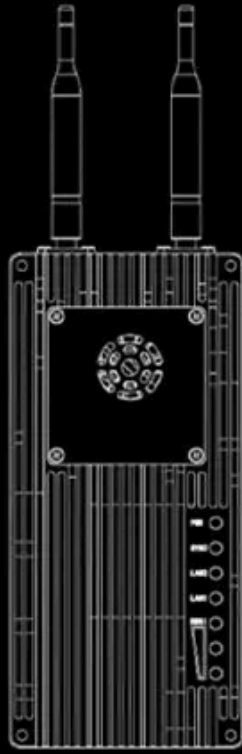


1x Fiberglass Antenna
Extension Cable



1x 6/9dBi Fiberglass Antenna

Air unit



Air unit



J30J-25PIN(air unit)



AirLink-I/II Lemo wiring



2.5dBi little Fiberglass antenna



Small antenna extension cable



AirLink-I module& bracket



AirLink-II module& bracket



AirLink-I/II 6dBi antenna

System Parameters	Technical Specifications			
Device Model	OFDM 100	OFDM 150	OFDM 200	OFDM 300
Operating Frequency	1350~1470MHz (Other frequencies customizable)			
RF Channel	2T2R			1T2R
Transmission Power	39dBm (8W)	40dBm (10W)	43dBm (20W)	46dBm (40W)
Transmission Distance	Air to ground 100KM(LoS)	Air to ground 150KM(LoS)	Air to ground 200KM(LoS)	Air to ground 300KM(LoS)
Channel Bandwidth	10MHz			
Modulation Mode	QPSK/16QAM			
Max Rate	16.4Mbps@16QAM3/4	15.7Mbps@16QAM3/4	15.1Mbps@16QAM3/4	13Mbps@16QAM3/4
Communication Encryption	AES256			
Transmission Delay	<10ms			
RF Interface	SMA x2			
Power Interface	XT30PW-M			
Device Interface	2 x 100M Ethernet, 2 x TTL/RS232, 1 x RS422, 2 x SBUS/TTL			
Power Consumption	≤ 48W Slave@4Mbps, ≤ 12W Master@1Mbps	≤ 66W Slave@4Mbps, ≤ 15W Master@1Mbps	≤ 90W Slave@4Mbps, ≤ 15W Master@1Mbps	≤ 200W Slave@4Mbps, ≤ 20W Master@1Mbps
Product Size	163 x 77 x 25mm	180 x 81 x 28mm	180 x 81 x 28mm	189 x 110 x 30mm
Product Weight	Approx. 340g	Approx. 415g	Approx. 415g	Approx. 642g
Operating Voltage	DC22~30V :Typical +24V@2A	DC22~30V:Typical 28V@3A	DC22~30V:Typical 28V@4A	DC22~30V:Typical 28V@8A
Operating Temperature	-40~+75°C	-40~+65°C		-20~+55°C

System Parameters	AirLink-I	AirLink-II
Device Model	AirLink-I	AirLink-II
Operating Frequency	1350~1470MHz	1350~1470MHz
RF Channel	2T2R	2T2R
Transmission Power	33/37/39/40/43dBm (2W/5W/8W/10W/20W)	33/37/39/40/43dBm (2W/5W/8W/10W/20W)
Transmission Distance*	30KM@2W (Line of Sight); 50KM@5W; 80KM@8/10W; 100KM@20W	60KM@2W (Line of Sight); 100KM@5W/8W; 150KM@10W; 200KM@20W
Channel Bandwidth	10MHz	10MHz
Modulation Mode	QPSK/16QAM	QPSK/16QAM
Maximum Rate	16.8Mbps@16QAM3/4	16.8Mbps@16QAM3/4
Communication Encryption	AES256	AES256
Transmission Delay	≤10ms	≤10ms
RF Interface	N-type Connector*2	N-type Connector*1
Data Interface	Ethernet1; WIFI1	Ethernet1; WIFI1
	TTL/RS2322; RS4221; SBUS*1	TTL/RS2322; RS4221; SBUS*1
Power Consumption	≤15W	≤15W
Protection Level	Sky: IP20, Ground: IP53	Sky: IP20, Ground: IP53
Product Dimensions	250mm150mm34.4mm	259mm259mm76mm

Operating Voltage	DC9~36V	DC9~36V
Operating Temperature	-40~+65°C	-40~+65°C

Air@Link User guide

SwiftLink series: 1.4GHz
Version: 20240908V2.0



Airlink - I



Airlink - II

Why Choose Us_

Related Products



VDLINK OFDM Series MESH
Networking Video/Data Link



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VDLINK SN40 TDD Bi-directional Video/Data Transmission System

\$3,685.00 – \$4,827.00

★★★★★

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VDLINK OFDM PRO Series Long Range Video/Data Transmission System

★★★★★

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VDLINK OFDM Series MESH Networking Video/Data Transmission System

\$6,599.00 – \$32,099.00

★★★★★

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VDC-48 TDD Bi-directional Video/Data Transmission System

★★★★★

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CHOOSE OPTIONS

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