Home > UAV Equipment > Accessory > Video & Data Transmitter > VDC Pro MESH Networking Wireless Transmission System

Foxtech

VDC Pro MESH Networking Wireless Transmission System

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$1,909.00 – $6,300.00

| SKU: | S230914 |
| Weight: | 5.00 KGS |

Version: Required

[10 KM] [30 KM] [48 KM]

Quantity:

[˅] 1 [˄]

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Description ⌃

Unlock unparalleled communication capabilities with the VDC Pro MESH Networking wireless transmission system, a military-grade MESH networking module designed for mid to long-range video, data and RC transmission needs in complex scenarios. Available in three versions—10 km, 30 km, and 48 km.

The VDC PRO MESH Networking version module supports frequency hopping in the 1420-1530 MHz range utilizing Orthogonal Frequency-Division Multiplexing (OFDM) technology. Within the 110M operating frequency band, the module automatically avoids interference, ensuring reliable and efficient communication.

In a mesh network, data can travel along multiple paths. If one node fails, the network can automatically reroute the data along a different path, improving the system's fault tolerance and reliability.

Mesh networks allow for a longer total range by passing data from node to node. This is particularly useful in large-scale applications, like agricultural monitoring, smart cities, and military reconnaissance.

For secure data transmission, the system employs advanced encryption standards like AES, as well as other encryption methods like SNOW and ZUC to ensure the highest level of security.

The "Go Silent In The Air" function ensures minimal interference to ground-based equipment while navigating through sensitive areas, making it ideal for operating in electromagnetic environments. This function guarantees optimal performance in every mission.

VDC Pro MESH Networking Video & Data Transmitterfeatures two Ethernet interfaces, two 232 interfaces, two TTL interfaces, and two SBus interfaces, significantly expanding its usability and extending the RC control range.

Highlights:
MESH Networking
10~48 KM Video/Data/RC

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1420-1530 MHz Frequency Hopping (OFDM)
AES/SNOW/ZUC Secure Data Transmission
Radio Silence In The Air

Your Purchase Includes:
1x VDC Pro MESH Networking Version (10km/30km/50km)
1x Integrated Cable With J30 Connector
1x Ethernet Cable
3x Antenna Connector
1x RS232-USB Converter
1x TTL-USB Converter
2x Air/Ground Unit Antenna

VDC Pro MESH Networking

Unlock unparalleled communication capabilities with the VDC Pro MESH Networking wireless transmission system, a military-grade MESH Networking Module designed for mid to long-range video, data and RC transmission needs in complex scenarios.

MESH Networking	**Video/Data/RC**	**Frequency Hopping (OFDM)**
Max 32 Nods	Ethernet *2; 232 *2; TTL *2; SBus *2	1420-1530 MHz
Long-Range Transmission	**Secure Data Transmission**	**Radio Silence**
10 km/30 km/48 km	AES/SNOW/ZUC	In The Air

Military-grade MESH Networking
Dynamic Self-Organization & Extended Range

Supporting point-to-point, point-to-multipoint, and multipoint-to-multipoint communications.

Information can be transmitted through multiple relay nodes to reach greater distances, enhancing the network's range capabilities.

Secure & Long Range Data Transmission

Advanced encryption standards like AES, as well as other encryption methods like SNOW and ZUC to ensure the highest level of security.

10-48km
Transmission Range

Radio Silence In The Air

The data transmission goes silent when passing through sensitive areas to avoid electromagnetic interference to the ground-based equipment, and resumes when appropriate.

Ensuring Reliable And Efficient Communication

1420-1530 MHz Frequency Hopping

Field	Value
Network Password	22
IP Address	192.168.147.10
Module Type	⦿AP ○Station
Frequency Range	⦿1.4GHz
Transmission Power	25
Down/Up Ratio	⦿1Down4Up ○2Down3Up ○3Down2Up ○4Down1Up
Frequency Bandwidth	10M
Channel selection	Auto

Auto
channel 1
channel 2
channel 3
channel 4
channel 5
channel 6
channel 7
channel 8
channel 9
channel 10
channel 11

Station Information — RSRQ SNR DIST TXPOWERSER MAX_SNR MIN_SNR Signal Quality

Open debugging information Close de...

Utilizing Orthogonal Frequency-Division Multiplexing (OFDM) Technology.

Automatically Avoids Interference Within The 110M Operating Frequency Band.

Product Interface Instructions

(The default interface of the product is 232*2; TTL*2; SBUS*2; Ethernet port*2)

31 ← 17

16 ← 1

S/N	Define	Remark	S/N	Define	Remark
1	GND		17	GND	
2	USB1_DP		18	SBUS2_OUT	(Can be reused as a TTL interface) for network TCP data reading
3	USB1_DM		19	SBUS2_IN	
4	TTL_TX	Unable to read network TCP data	20	SBUS1_OUT	(Can be reused as a TTL interface) for network TCP data reading
5	TTL_RX		21	SBUS1_IN	
6	RS232_2_TX	(Can be reused as a TTL for interface) network TCP data reading	22	TTL_RX	(Can be reused as a 485, 422 interface) for network TCP data reading
7	RS232_2_RX		23	TTL_TX	
8	GND		24	NC	
9	RS232_1_TX	(Can be reused as a TTL interface) for network TCP data reading	25	NC	
10	RS232_1_RX		26	ETHO_RX-	
11	ETHI_RX-		27	ETHO_RX+	
12	ETHI_RX+		28	ETHO_TX-	
13	ETHI_TX-		29	ETHO_TX+	
14	ETHI_TX+		30	VCC	
15	GND		31	VCC	
16	GND				

10KM

1x Node Module	1x Ethernet Cable	1x TTL-USB Converter
1x Integrated Cable With J30 Connector	2x Antenna Connector	1x RS232-USB Converter	2x Air UnitAntenna or 2x Ground Unit Antenna

30KM

1x Node Module	1x Ethernet Cable	1x TTL-USB Converter
1x Integrated Cable With J30 Connector	2x Antenna Connector	1x RS232-USB Converter	2x Air Unit Antenna or 2x Ground Unit Antenna

48km

1x Node Module	1x Ethernet Cable	1x TTL-USB Converter
1x Integrated Cable With J30 Connector	2x Antenna Connector	1x RS232-USB Converter	2x Air Unit Antenna or 2x Ground Unit Antenna

MESH Networking Version

Specification		10 km	30 km	48 km
Frequency		1.4-1.5G		
Bandwidth		5MHz/10MHz/20MHz		
EIRP		0-25 dBm±2	0-33 dBm±2	0-37 dBm±2
Receiver Sensitivity		20M Hz -99 dBm		
		10M Hz -103 dBm		
		5M Hz -104 dBm		
Modulation		OFDM/QPSK/16QAM/64QAM		
Bit Rate		Max 30 Mbps Each Nod		
Range(km)		15 km	30 km	48 km
Delay	Ethernet≤150 ms	√	√	√
	UART≤20 ms	√	×	×
Boot Time(s)		≤10s		
Interface		Ethernet *2 232 *2 TTL *2 SBus *2		
Parameter Configuration	Web Page	√	√	√
Voltage(V)		12	12	24
Max Power Consumption(W)		6	18	30
Storing Temperature		-40℃~+85℃		
Working Temperature		-20℃~+55℃		
Air Unit Weight(g)		138g	225g	260g
Size(mm)		92*67*22	135*67*25	164*67*24

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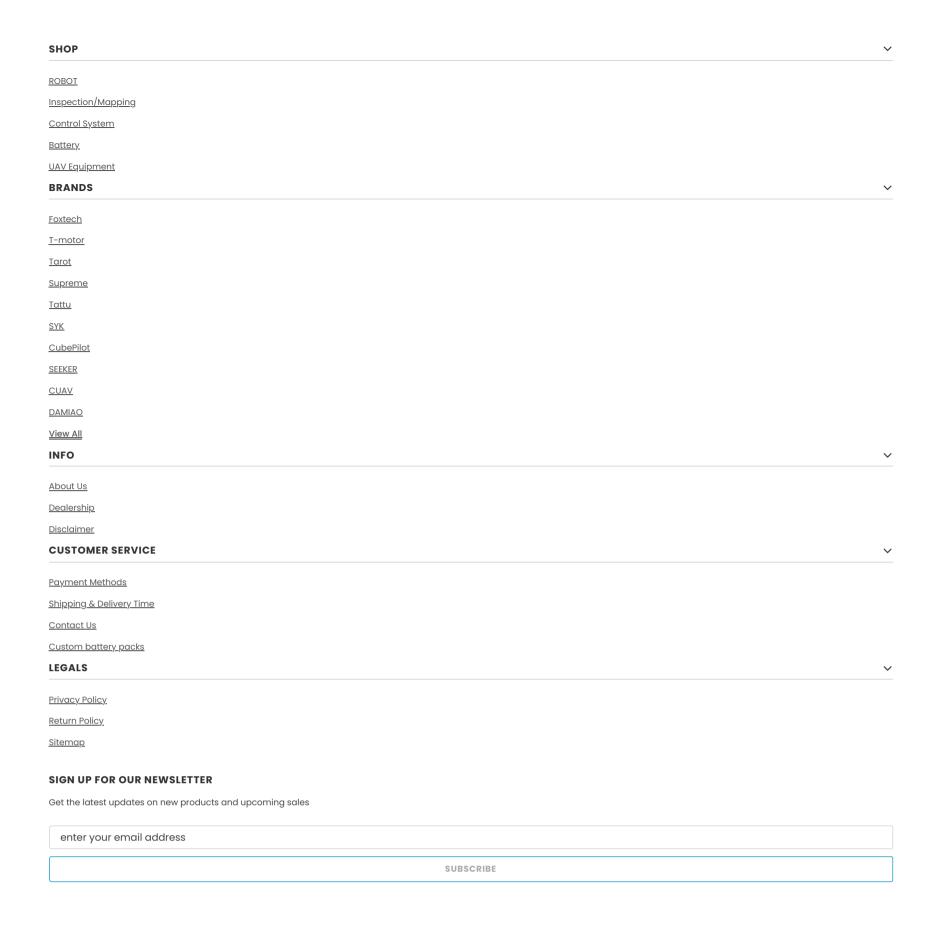
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