

Chinowing Technology Co., Ltd

www.chinowing.com

Room 1106, Building B4, Wisdom Park, No.138, Xingxin Road, Guangming Street, Guangming District, Shenzhen City, Guangdong Province, China

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Ethernet Video&Data&RC Link

V31



V31 is a wireless digital video and telemetry data and RC link with two options of frequencies: 800MHz and 1.4GHz. Having a maximum range of 80km, it supports 1 video streaming channel, 2 SBUS channels and 1 serial channel. V31 supports point-to-point, point-to-multipoint communication. The central node can communicate with a maximum of 16 connecting nodes, which enhances the application scenarios greatly.

The high level of integration reduces the product's power consumption and size. It is especially suitable for UAVs and UGVs.

Technology moves rapidly. Specifications are subject to change.

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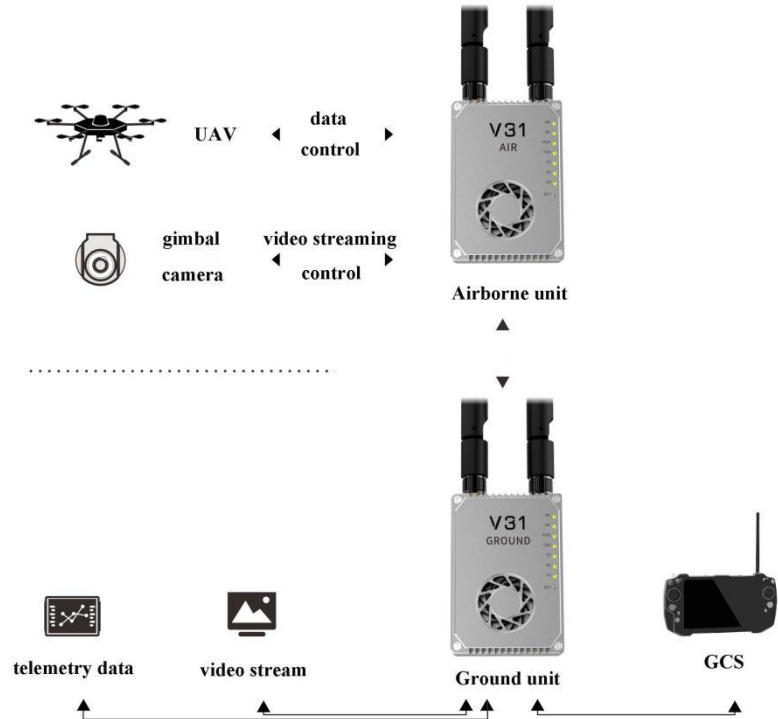
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V31

- Dual SBUS IN and Out
- Star topology
- 50km range
- Visual Web configuration
- 800MHz, 1.4GHz for choice

Video&telemetry data&RC link



All-in-One Radio Link

Transparent network transmission, able to transmit video streaming, compatible with all network protocols

Transparent data transmission, supporting TTL/RS232 Level signal

Dual SBUS input and output, extending remote control range

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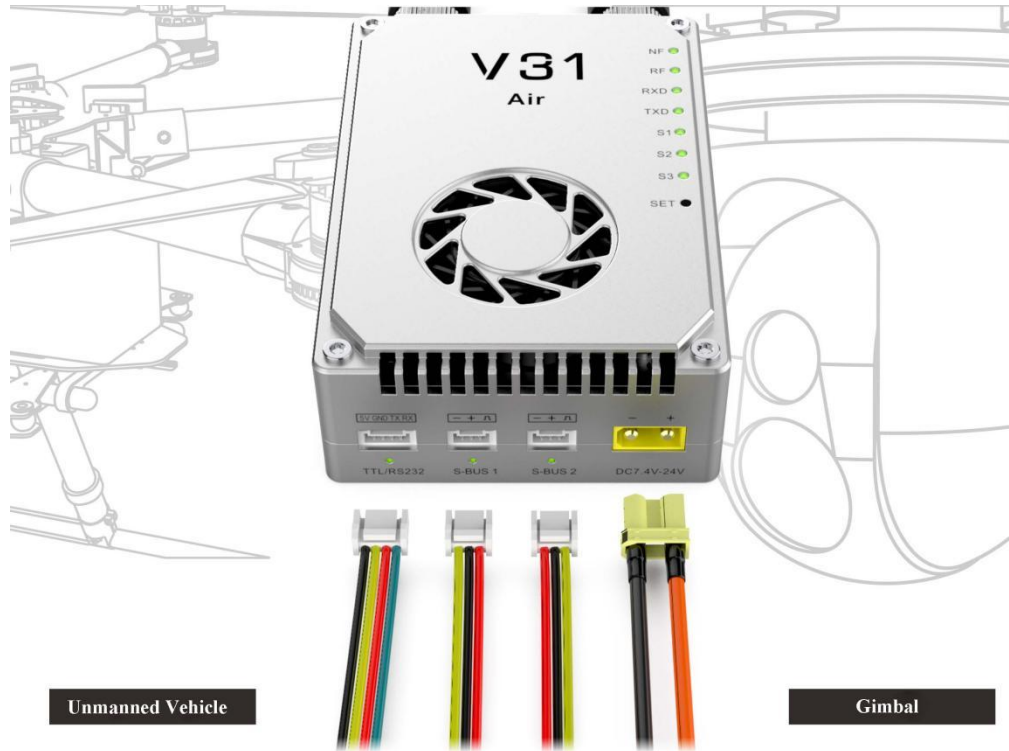
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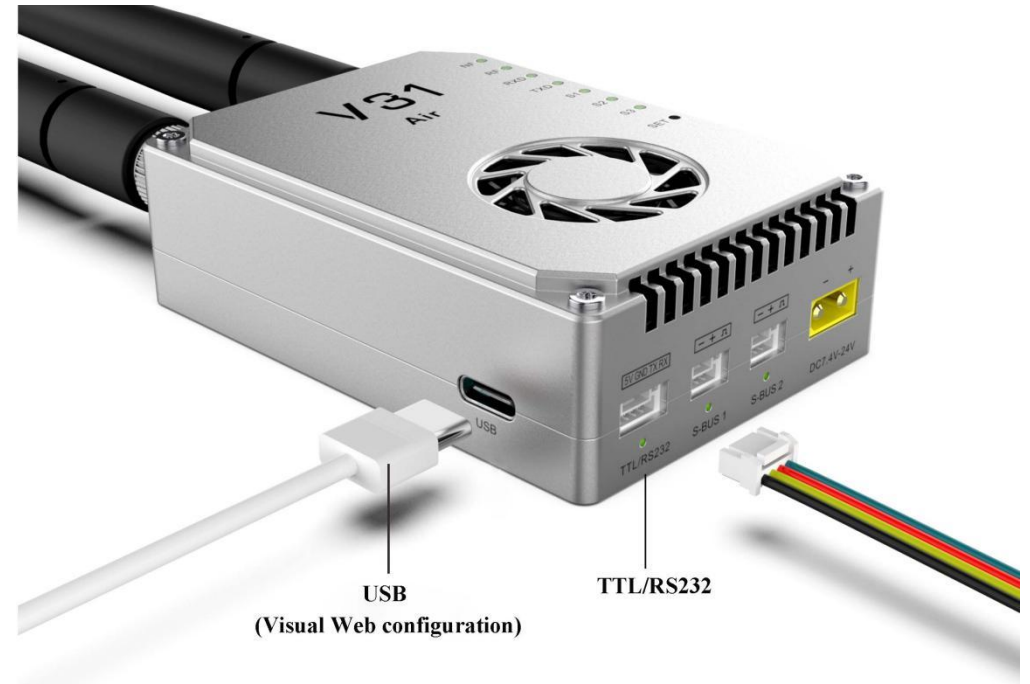


Unmanned Vehicle

Gimbal

Dual SBUS

Able to control the unmanned vehicle and its payload simultaneously



USB
(Visual Web configuration)

TTL/RS232

RS232/TTL

Selectable data port, RS232 or TTL

Adjustable baud rate

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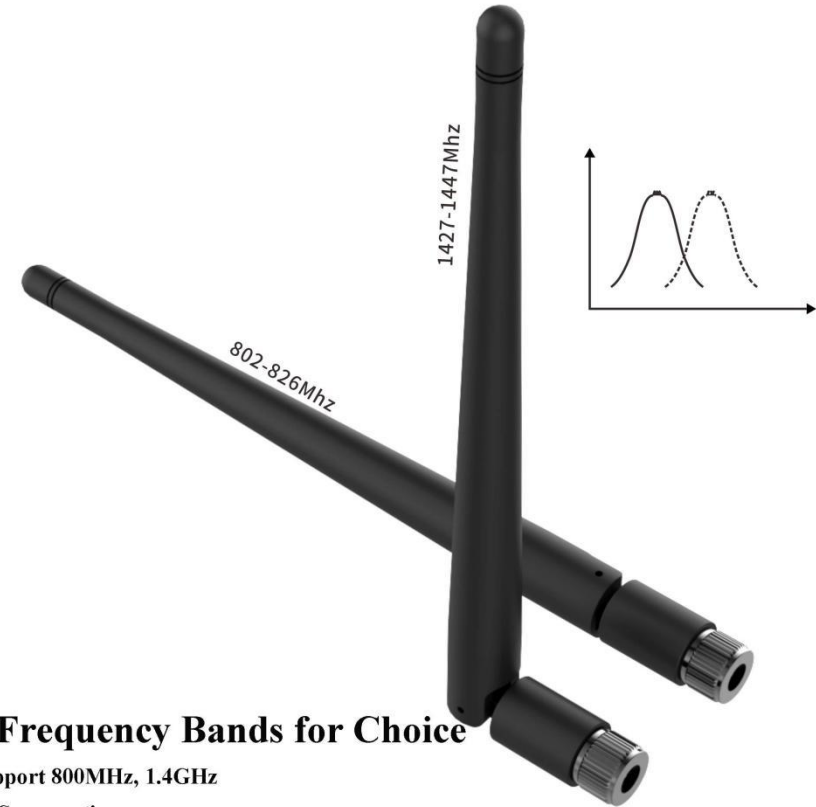
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Star Topology

Support point-to-point, point-to-multipoint communication, the central node can communicate with any connecting nodes, max 16.

2 Frequency Bands for Choice

Support 800MHz, 1.4GHz

AES encryption

Avoid interference by band scanning

Support internal frequency hopping in the selected frequency band

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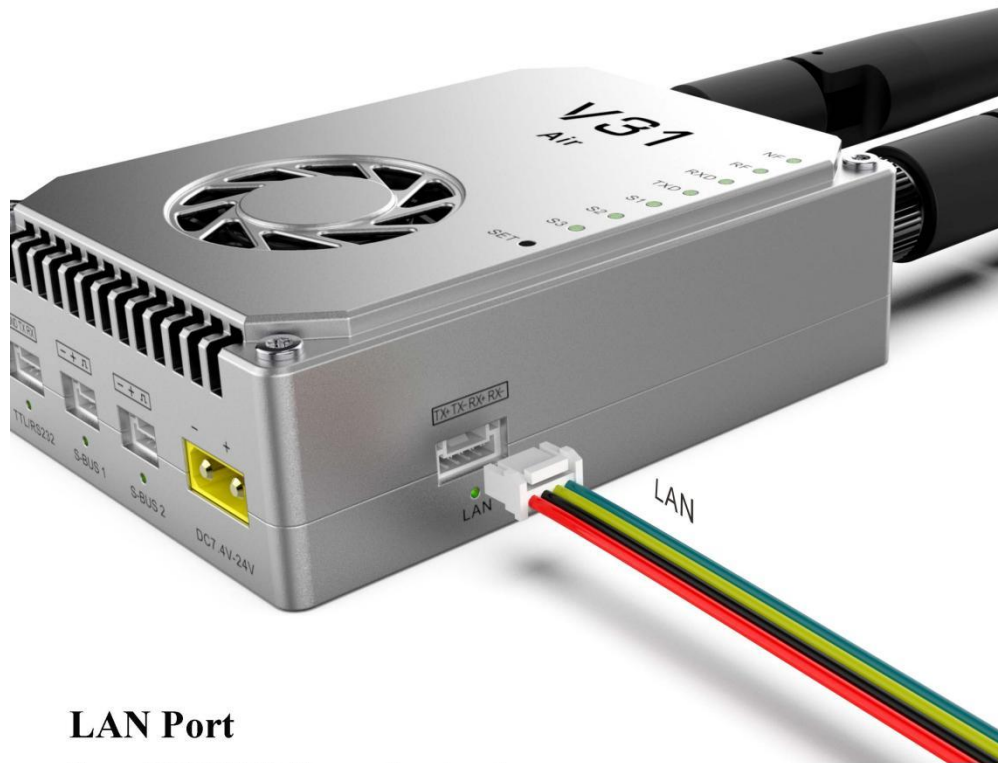
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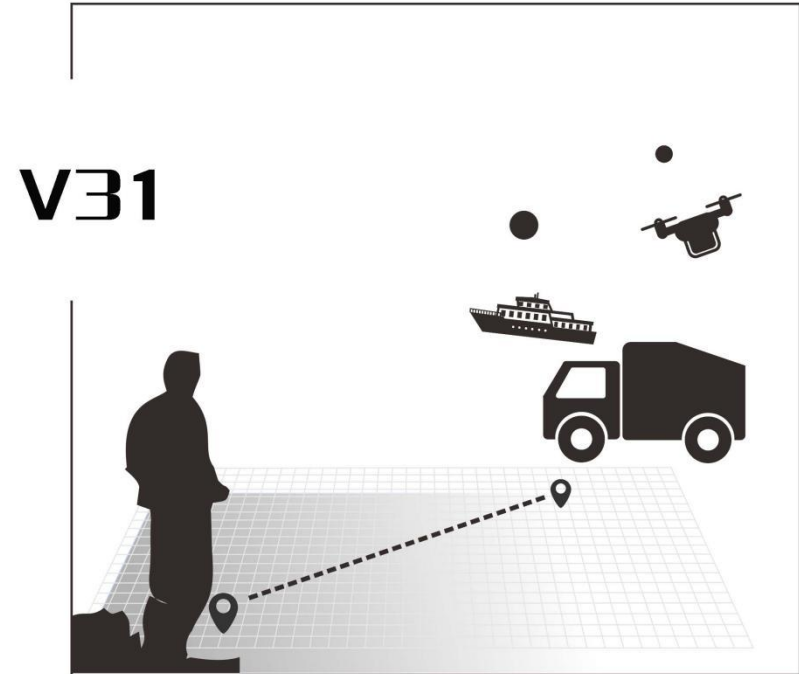


LAN Port

Support H.264/H.265 video encoding streaming

Bandwidth: 3MHz/5MHz/10MHz/20MHz

Compatible with all the network protocols



Range

Ground to ground: 3-5km@LOS condition

Air to ground: 50km grade@LOS condition

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Support working with E11 Network Port Expansion Dock

It is possible to expand V31 with 3 IP serial channels and 2 LAN channels using E11.

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Parameters

Item	Parameters	Description
Frequency band	800MHz	806-826MHz
	1.4GHz	1427.9-1447.9MHz
RF power	2w, 5w	adjustable
Transmission range	V31-5km: 5km grade(ground to ground) V31-20km: 20km grade(air to ground) V31-30km: 30km grade(air to ground) V31-50km: 50km grade(air to ground) V31-80km: 80km grade(air to ground)	LOS condition
S-BUS port	2*S-BUS ports	NA
Serial port	1*serial port (default: TTL; optional: RS232)	Full duplex, baud rate adjustable

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Video latency	200-300ms	
Power supply voltage	DC 7.4-24V	2S-6S battery
Bandwidth	1.4-20M	1.4M/3M/5M/10M/20M
Video input/output	LAN	Connecting IPC device/PC
Power supply interface	XT30	
Antenna	glue stick antennas&fiber glass epoxy antennas	
Dimension	80mm*56mm*25mm	
Weight	160g(exclude antenna)	
Operation temperature	-20°C-+50°C	

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<p>E11</p> <p>Network Port Expansion Dock</p> <p>(It can work with V31 to extend the serial and LAN ports)</p> <p>(Optional)</p>	
<p>Power supply voltage</p>	<p>7.4v-24v</p>
<p>Serial port interface</p>	<p>TTL*1; RS232*2</p> <p>(able to work simultaneously)</p>
<p>Serial port working mode</p>	<p>Support TCP Server, TCP Client, UDP Client, UDP Server, Httpd Client</p>
<p>Ethernet port</p>	<p>LAN*3</p>
<p>Weight</p>	<p>60g</p>

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Dimension	85mm*55mm*13mm
Operating temperature	-10°C~+50°C

Product video

1	V31-5km 1km range@NLOS condition (Ground to ground test, city environment, 8 tall buildings between Tx and Rx)	https://youtu.be/c3q690EBh9Q
2	V31-30km 30km range@LOS condition 2*glue stick antennas at the ground end (Air to ground test, plain environment)	https://youtube.com/shorts/toqDnInEuNk
3	V31-30km 36km range@LOS condition 2*fiber-glass epoxy antennas at the ground end (Air to ground test, plain environment)	https://youtu.be/CE9VHWM9oMM

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Purchase Guide

1. V31 has 5 sub-models, V31-5km, V31-20km, V31-30km, V31-50km, V31-80km. When ordering, pls specify.
2. V31 has 2 frequencies for choice, 800MHz and 1.4GHz. When ordering, pls specify.
3. V31 Air unit and Ground unit have one serial port, default: TTL(RS232 optional). If there is no special instruction from the customer, TTL port will be configured. If RS232 is needed, kindly notify us.

Pls, refer to the below list to specify your requirement when ordering.

No.	P/N	Frequency	Range	Serial port	E11
1	V21	800MHz, 1.4GHz, 2.4GHz	10km grade(air to ground)	TTL(default), RS232(optional)	Need or not
2	V31-5km	800MHz, 1.4GHz	3-5km(ground to ground)	TTL(default), RS232(optional)	Need or not
3	V31-20km	800MHz, 1.4GHz	20km grade(air to ground)	TTL(default), RS232(optional)	Need or not
4	V31-30km	800MHz, 1.4GHz	30km grade(air to ground)	TTL(default), RS232(optional)	Need or not
5	V31-50km	800MHz, 1.4GHz	50km grade(air to ground)	TTL(default), RS232(optional)	Need or not

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6	V31-80km	800MHz, 1.4GHz	80km grade(air to ground)	TTL(default), RS232(optional)	Need or not
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