

VD-PRO **5G** Video/Data Wireless Transmission System

Product Specification



Declaration:

Thank you very much for choosing our products!

Please read this manual carefully before installation and use.

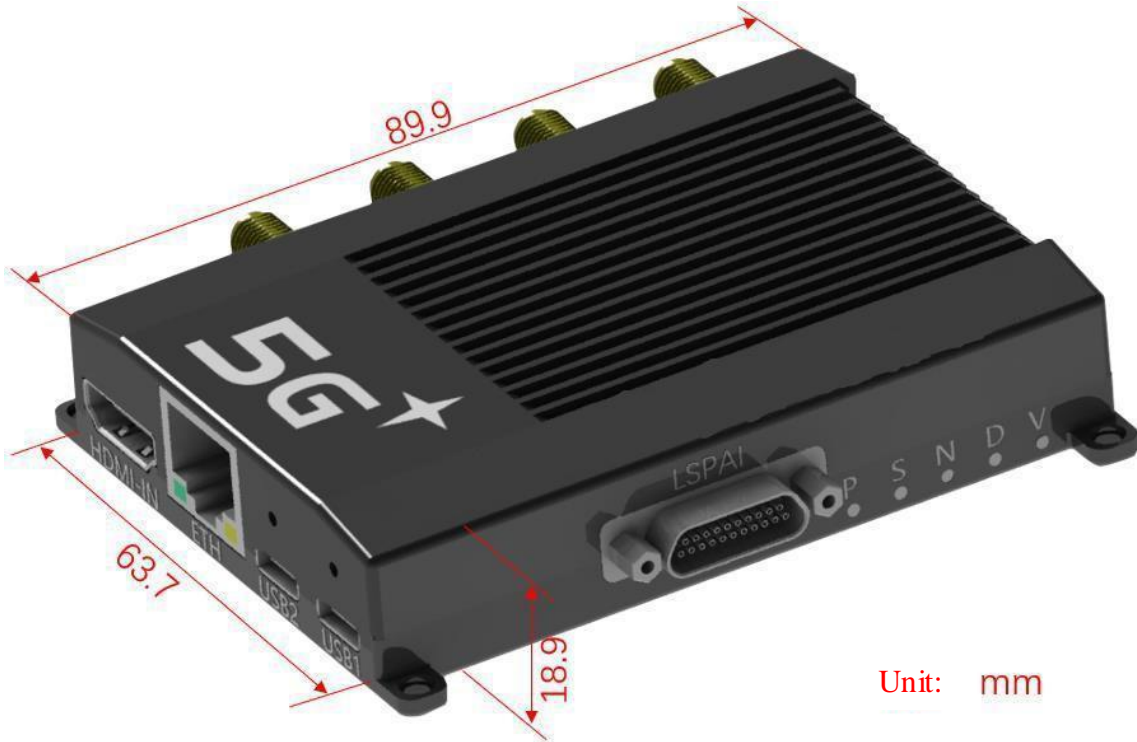
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A DIMENSION



B PARAMETER

COMMUNICATION

- 5G(SA/NSA)/4G
- telemetry latency $\leq 20\text{ms}$
- livestream latency $\leq 300\text{ms}$

VIDEO FORMAT

- Default H.264, optional H.265

POWER DISSIPATION

- $< 5\text{W}$ (average 4.6W)

NETWORK ACCESS HEIGHT

- 300m

OPERATING HUMITURE

- $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$
- $\leq 80\% \text{RH}(50^{\circ}\text{C})$

INTERFACE

- Type-C USB2.0 $\times 2$
- Type-A HDMI $\times 1$
- RJ45 GBE $\times 1$
- Nano SIM slot $\times 1$
- J30J low speed lumped port $\times 1$

VIDEO ACCESS

- HDMI/RJ45 Ethernet

POWER

- J30J

SUPPLY VOLTAGE

- 4.5V~16V

WEIGHT

- 138g (Without accessories)

C FREQUENCY

Frequency band

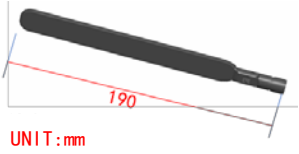

5G NR NSA	n41/n77/n78/n79
5G NR SA	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38 n40/n41/n66/n71/n77/n78/n79
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19 B20/B25/B26/B28/B29/B30/B32/B66/B71
LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48

Maximum data transfer rate^①

- 5G SA/NSA uplink 100 Mbps
- LTE uolink 40 Mbps

①: test result, specific values are affected by network conditions

D PARTS LIST

Part/image	Specs
<p>5G antenna x4</p>  <p>UNIT:mm</p>	<ul style="list-style-type: none">➤ Operating temperature: -40~70°C➤ Frequency: 700M~880MHz、1.71G~2.6GHz、3.3G~5GHz➤ Gain : average 3dBi➤ weight: 15g➤ interface : SMA (provide feeder line)
<p>5G feeder line x4</p>	<ul style="list-style-type: none">➤ 50 ohm 0.5m➤ Interface: SMA
<p>J30J-21</p> 	<ul style="list-style-type: none">➤ Length: 0.2m➤ Weight: 15g

E PORT DEFINITION



NO.	ITEM	TYPE	USE
(1)	USB2.0	Type-C	USB
(2)	USB2.0	Type-C	USB
(3)	GBE	RJ45	VIDEO-IN, DATA-OUT, LAN Connection
(4)	HDMI IN	Type-A	VIDEO-IN
(5)	Low Speed Lumped Port	J30J-21	Power Supply, Debug x1 Flight & Gimbal Controlx4
(6)	Nano SIM	With Slot	Nano SIM Card Install
(7)	1 Power Sign	Green	Light When Power On
(8)	2 System Sign	Green	Light When System Run
(9)	3 Network Sign	Green	Light When Network Connected
(10)	4 COM Sign	Green	Light When COM Normal
(11)	5 Video Sign	Green	Light When Video-in Normal
(12~15)	ANT1~ ANT4	SMA	Connect RF Antenna

F LOW SPEED LUMPED PORT DEFINITION

NO.	NAME	PIN	USE
(1)	12V	11、 21	12V in
(2)	5V	12	5V out
(3)	GND	1, 4, 7, 10, 13, 16, 19, 20	ground
(4)	Debug	9	Data sending
		8	Data receiving
(5)	COM 1 (TTL)	18	Data sending
		17	Data receiving
(6)	COM 2 (TTL)	6	Data sending
		5	Data receiving
(7)	COM 3 (232)	15	Data sending
		14	Data receiving
(8)	COM 4 (232)	3	Data sending
		2	Data receiving