D1-L
EXTERNAL DATALINK

For Your Long Range Data Receiving

LONG WORKING RANGE

Adopted with LoRa (Long Range) protocol, the ultra-long working range of D1-L external datalink greatly saves the time and cost of users. Using the Y1 GNSS receiver internal radio as base station, the D1-L achieves up to 15km working range. With the SDL1 datalink, the range can be further.

USER-FRIENDLY

Equipped with an intuitive front panel, users can easily check the work modes from the indicators and switch the frequency channels via the buttons. Automatic turn-on when power on, with anti-reverse polarity protection and wide voltage power supply, D1-L is convenient for farmers to use.

SUPERIOR PERFORMANCE

Featuring up to 18000bps air baud rate, the D1-L is suitable for full-constellation & triple frequency GNSS correction data transmission with large amounts of data.
With IP66 protection level and anti-vibration design, the D1-L is not afraid of harsh environments.

GENERAL

Frequency Range	410-470 MHz
Channel Spacing	250 kHz
Work Mode	Half-duplex
Frequency Stability	1.5ppm
Modulation System	CSS
Air Baud Rate	500bps/11000bps/12500bps/15500bps/18000bps
Serial Port Baud Rate	4800/9600/19200/38400/115200bps
Protocol Type	LoRa
Receive Sensitivity	-120dBm

ELECTRICAL

Power Supply	+8V ~ +32V DC
Received Power	0.5W
Transmit Power	- High: 3.3 W - Low: 2.7 W

PHYSICAL

Size	126×71×30mm
Weight	300g
Antenna Connector	TNC, 50 Ohm
Data Connector	Aviation connector to RS232
Indicator	3 indicators for Power, TX, RX
Button	2 buttons for channels switching

ENVIRONMENTAL

Operating Temperature	-40℃ to +70℃
Storage Temperature	-40℃ to +85℃
Waterproof & Dustproof	IP66
Shock	Survive from a 2m-drop
Humidity	100% no condensing

All specifications are subject to change without notice.

FREQUENCY LIST

Channel	Transmitting Frequency	Receiving Frequency
0	454.050	454.050
1	455.050	455.050
2	456.050	456.050
3	457.050	457.050
4	458.050	458.050
5	459.050	459.050
6	460.050	460.050
7	461.050	461.050
8	462.050	462.050
9	463.050	463.050

The default frequency can be modified according to your specific requirements.

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