STEC

Long Range Booster

L R B

The palm-size long range booster.
Small. Smart. And beyond splendid.

WiFi and Bluetooth connection with base receiver. Flexible and truly wireless.

Network connection via SIM card provides more possibilities for NTRIP users.

Make various configurations on webserver wirelessly.

7W small output delivers a long working distance up to 10-20km*[1] with stable and safe connection.

10h*[2] working time with internal battery and powerbank. Also supports ordinary accumulator.

Specifcally tailored for STEC S-LINK protocol, and compatible to others.

1. Working distance differs in different conditions.
2. Powerbank of minimum 20,000mAh with fast charge.

SPECIFICATIONS

L R B

GENERAL	
Frequency Range	410-470MHz
Operating Mode	Half-duplex
Channel	16 channels
Channel Spacing	12.5 KHz / 25 KHz
Air Rate	9,600bps, 19,200dps
Modulation	GMSK, 2FSK, 4FSK, LoRa
Operating Voltage	9-36 V
Power Consumption (@12V input)	Transmit (high): 17W Receive: 2.5W
Frequency Stability	⩽1.0 ppm
Protocol	S-LINK, TrimTalk 450S, SATEL, etc.
TRANSMITTER	
RF Output Power	3W / 7W (12V input)
RF Power Stability	±1.0 dB
Adjacent Channel Inhibition	>50 dB
RECEIVER	
Sensitivity	<-118 dBm @ BER 10^{-5}, 9600 bps <-128 dBm @ S-LINK
Co-channel Inhibition	>-12 dB
Block	>70 dB
Adjacent Channel Selectivity	>52 dB @ 25KHz
Perturbation Resistance Stray	>55 dB
WIRELESS	
4G Module	EG25
Supportable Bands	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
WiFi	IEEE 802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0
INTERFACE	
Radio Antenna Interface	TNC
4G Antenna Interface	TNC
Antenna Interface Impedance	50 ohm
Data Interface	Type-C USB, LEMO 5-pin
PHYSICAL	
Battery	Internal Li-on battery, 3.6V 13,600mAh
Dimension	128mm*108mm*44mm
Weight	720g
Working Temperature	-40°C - +85°C
Storage Temperature	-45°C - +90°C
Water & Dust Proof	IP67

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