

S1 Radio

S1, a new work of Kolida GNSS, is an IP67 classified UHF radio modem with a high power (up to 25W) transmitter and wide (410 to 470 MHz) tuning range, specially designed to achieve large amount data transmission with all satellite systems signal utilized.

A series of new features have been added to realize easy mobile use in demanding field conditions, and to help you to work faster, work more efficient and more cost effective.



Improved Data Transmission Capability

- With a 25W transmitter, the connection distance of 12 km can be covered in favourable conditions.
- With 19200/ 38400 air baud rate, the correction data amount we send from base to rover is larger and the positioning result is more accurate.
- Data transmission is in transparent mode, higher fidelity, fewer errors.

Less Trouble, Easy to Use

- S1 works with South (Kolida) and Trimtalk protocol, is able to co-work with other brands receivers.
- User is able to configure the radio parameters via mobile app or key buttons directly, no need of PC and cable.
- LCD screen is available on S1, to show operation status includes frequency/ channel/ power/ voltage in real time.

Born to be Reliable

- There are 20 pieces of heat sinks integrated with machine body, increase the heat dissipation surface and speed up the cooling.
- 16 radio channels to choose, minimize the signal conflict with other surveying teams.
- Casing and connector of S1 are water/ dust proof IP67 level.

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SPECIFICATIONS

Radio	
Protocol	SOUTH(KOLIDA)/Trimtalk
Power	10W/25W
Frequency	410MHz~470MHz
Channel Bandwidth	12.5 kHz/25 kHz
Rx Sensitivity	$\leq 0.25\mu\text{V}$ (12dB SINAD)
Air Band Rate	9600/19200/38400
Serial Band Rate	9600/19200/38400
Channels	16
Interface	
Display	1.54 inch LCD
Buttons	4
Indicator configurations	2 indicator lights
	Through Android app or buttons
Link	
BT	BT v4.0
Data/Power Connector	5-pin LEMO external power port +Rs232
RF Connector	TNC female
Environmental	
Operating Temperature	-40°C to +80°C
Storage Temperature	-45°C to +85°C
Waterproof/Dustproof	IP67
Shockproof	1 m
General	
Size	178*135*68mm
Weight	2.3KG
Power	9.0V DC to 15.0V DC, nominal @ 12.0V DC