



TR7

GNSS RECEIVER



Data Specifications

GNSS

Signal Tracking	GPS: L1, L2, L5 GLONASS: L1, L2 BDS: B1, B2, B3 Galileo: E1, E5A, E5B QZSS: L1, L2, L5 SBAS: L1
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No. of Channels	440
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MEASUREMENT PERFORMANCE

Initializing Time	Less than 10 Seconds
Real-time Kinematic	Hz 8mm + 1ppm / V 15mm + 1ppm RMS
Static and Fast Static	Hz 2.5mm + 0.5ppm / V 5mm + 0.5ppm RMS
High-precision Static	Hz 2.5mm + 0.1ppm / V 3.5mm + 0.4ppm RMS
DGPS	Hz 0.25m + 1ppm / V 0.5m + 1ppm RMS
Initialization Reliability	99.99%
Static Data Format	GNS and Rinex

COMMUNICATIONS

Communication Ports	USB, TNC antenna port and Nano SIM card slot 4G LTE Bluetooth 4.0, Wi-Fi and NFC DC External power input LED indicator panels
Internal UHF Transceiver	Frequency: 403-473MHz Channel: 116 (16 configurable) Transmitting power:1W/2W/4W Protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.. Working range: 5-6km typical, 6-7km optimal

SYSTEM

Start-up Time	3 Seconds
Data Storage	16GB internal storage
Sensor	Electronic bubble and tilt survey

DATA MANAGEMENT

Positioning Output Frequency	1Hz - 20Hz
Message Type	CMR, RTCM2.X, RTCM3.0, RTCM3.2
Network Mode	VRS, supports NTRIP protocol
Output Format	ASCII: NMEA-0183, binary data
Application Function	OTG, NFC, WebUI, USB firmware upgrade, network repeater station Intelligent voice, self-test function, smart battery, battery quick change Message delivery and remote upgrade

GENERAL

Environmental	IP67 environmental protection Humidity 100% condensing Shock resistant body to 2m (6.5ft) pole drop Temperature -40° to 75°C Operating -55° to 85°C Storage
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Physical Properties	OLED Screen: 1.54in Resolution: 128 x 64 Size: 137mm x 131mm Weight: 1.35kg including battery Power: 6 - 28V DC Input Battery: 6800 mAh Li-Ion Battery Battery Life: 10 hours (Network/Cellular - RTK Rover)
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