



TR7

GNSS RECEIVER

Data Specifications

GNSS

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| 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 | 800+ |
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MEASUREMENT PERFORMANCE

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| 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 |
| DGPS | Hz 0.25m + 1ppm / V 0.5m + 1ppm RMS |
| Initialization Reliability | 99.9% |
| Static Data Format | GNS and Rinex |

COMMUNICATIONS

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| 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

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

DATA MANAGEMENT

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| 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

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| 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 Operation Time: 10 hours (Network/Cellular - RTK Rover) |
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