



## GNSS RECEIVER

GNSS

Signal Tracking GPS: L1, L2, L5

GLONASS: L1, L2 BDS: B1, B2, B3 Galileo: E1, E5A, E5B QZSS: L1, L2, L5 SBAS: L1

IRNSS:L5

No. of Channels 800+

**MEASUREMENT PERFORMANCE** 

Initializing Time Less than 10 Seconds

 $\begin{array}{lll} \mbox{Real-time Kinematic} & \mbox{Hz 8mm} + 1\mbox{ppm / V 15mm} + 1\mbox{ppm RMS} \\ \mbox{Static and Fast Static} & \mbox{Hz 2.5mm} + 0.5\mbox{ppm / V 5mm} + 0.5\mbox{ppm RMS} \\ \mbox{DGPS} & \mbox{Hz 0.25m} + 1\mbox{ppm / V 0.5m} + 1\mbox{ppm RMS} \\ \end{array}$ 

Initialization Reliability 99.9%

Static Data Format GNS and Rinex

Hi-Fix<sup>1</sup>

Horizontal RTK + 10 mm/minute RMS Vertical RTK + 20 mm/minute RMS

IMU Additional horizontal pole-tilt uncertainty typically less than 10mm +0.7 mm/°tilt

(2.5cm accuracy in the inclination of 60° under ideal circumstances)

**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

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)

OAccuracies are dependent on GNSS satellite availability. Hi-Fix positioning ends after 5 minutes of radio downtime. Hi-Fix is not available in all regions, check with your local sales representative for more information.