

BORN FOR SURVEY

Turning the ordinary into the extraordinary



LEGEND

L6U



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OLED display

Full constellation

Ultra long range radio

Internal GSM antenna

Radio/CORS repeater

Large capacity battery

Magnesium alloy housing

Patented physical offset technology

PERFORMANCE SPECIFICATIONS

MEASUREMENTS

- ◆ 432 Tracking Channels
- ◆ Satellite signals tracked simultaneously
 - GPS: L1C/A, L1C, L2C, L2E, L5
 - GLONASS: L1C/A, L1P, L2C/A, L2P, L3
 - SBAS: L1C/A, L5 (Just for the satellites supporting L5)
 - Galileo: E1, E5A, E5B, E5 AltBOC, E6
 - BDS: B1, B2, B3
 - RTX, QZSS, WAAS, MSAS, EGNOS, GAGAN, SBAS
- ◆ Positioning rates
 - 1Hz, 2Hz, 5Hz, 10Hz, 20Hz, and 50Hz
- ◆ Initialization time < 10s
- ◆ Initialization reliability >99.99%

POSITIONING

- ◆ Code differential GNSS positioning
 - Horizontal: 0.25 m + 1 ppm RMS
 - Vertical: 0.50 m + 1 ppm RMS
 - SBAS differential positioning accuracy: typically <5m 3DRMS
- ◆ Static GNSS surveying
 - Horizontal: 3 mm + 0.1 ppm RMS
 - Vertical: 3.5m m + 0.4 ppm RMS
- ◆ Real time kinematic surveying
 - Single baseline < 30km
 - Horizontal: 8 mm + 1 ppm RMS
 - Vertical: 15m m + 1 ppm RMS
 - Network RTK
 - Horizontal: 8 mm + 0.5 ppm RMS
 - Vertical: 15m m + 0.5 ppm RMS
 - RTK start-up time: 2 to 8 seconds
- ◆ RTX service
 - Horizontal: 2-4cm RMS
 - Vertical: 5cm RMS
 - Convergence time: < 15min

HARDWARE

PHYSICAL

- ◆ Material: Magnesium alloy
- ◆ Dimensions (W×H): 130mm×110mm
- ◆ Weight: 1.0kg with internal battery
- ◆ Operating temperature: -40 °C to +60 °C
- ◆ Storage temperature: -55 °C to +85 °C
- ◆ Ingress protection: IP67 dustproof, protected from 30min immersion to depth of 1m
- ◆ Shock: Survive a 2m pole drop onto concrete
- ◆ Vibration: MIL-STD-810G

COMMUNICATIONS & DATA STORAGE

- ◆ I/O Interface
 - 1 LEMO port (5pin): Supports power input, serial port control, and external radio communication
 - 1 micro USB port: Data download, OTG
 - 1 sim card slot: Supports micro sim card
 - 1 antenna port: UHF antenna interface
- ◆ Radio modem
 - Transmit power: 1w/2w/5w switchable, the work range is greater than 6km
 - Frequency band: 410MHz-470MHz; supports to freely set the frequency
 - Supports to retransmit correction from CORS; Compatible with other brands
- ◆ Cellular
 - Integrated full frequency band 4G modem, supports WCDMA/CDMA2000/TDD-LTE /FDD-LTE
- ◆ WiFi
 - 802.11 b/g standard, access point and client mode, supports to access to hotspot to transfer corrections
- ◆ Bluetooth
 - Fully integrated Bluetooth V4.0, range = 50m
- ◆ Data format
 - sCMRx, RTCM3.2, CMR, RTCM 3.x input and output
 - Dat, Rinex, NMEA outputs
- ◆ Storage
 - 8GB, 16GB, 32GB internal memory optional, supports cyclic storage; over one-year raw observations based on 5 seconds interval

OTHERS

PRACTICAL

- ◆ OS system: Intelligent LINUX operating system
- ◆ Tilt survey: Calibration free; accuracy, <2.5cm in 30 degree
- ◆ Relay station: CORS relay, radio relay
- ◆ Supported controllers: All Android devices with supported software

DESIGN

- ◆ Display: 1.54" high brightness LCD screen
- ◆ Button: 1 power key, 2 function keys
- ◆ Indicator: 1 power indicator, 1 data link indicator, 1 satellite indicator
- ◆ Voice: Intelligent voice prompts

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