



A100 Plus Reference Receiver



- GNSS Reference Receiver flexible for applications such as : CORS, Portable RTK, etc
- 555 Universal Channels
- Satellite tracking - GPS/GLONASS/GALILEO/BEIDOU/QZSS/IRNSS/SBAS with L-Band
- High-precision Static, DGNSS, SBAS and Network-RTK
- WebUI to setup and modify settings
- NTRIP Caster/Server/Client
- Remote management, FTP download and push alongwith Email/SMS alerts for warning
- Internal/External power options with upto 20hrs backup with Internal battery
- Configurable input, output and logging of Met/Tilt measurements

A100 Plus Reference Receiver

Specifications



GNSS engine

- Satellites tracked:
GPS: L1 C/A, L1C, L2C, L2P, L5
GLONASS: L1 C/A, L2C, L2P, L3, L5
BEIDOU: B1, B2, B3
GALILEO: E1, E5 AltBOC, E5a, E5b, E6
QZSS: L1 C/A, L1C, L2C, L5, L6
IRNSS: L5
SBAS: L1, L5
- Channels: 555
- L-Band: Yes
- Position rate: 5Hz, Optional upto 50Hz
- Internal Memory: 32GB, External upto: 32GB
- Signal Reacquisition: < 1 sec
- RTK Signal Initialization: Typically < 10 sec
- Hot Start: Typically < 15 sec

Accuracy ¹

- Positioning:
HIGH PRECISION STATIC SURVEYING:
Hz 3mm + 0.1 ppm RMS
V 3.5mm + 0.4 ppm RMS
CODE DIFFERENTIAL POSITIONING:
Hz 0.25m RMS
V 0.45m RMS
SBAS POSITIONING:²
Hz 0.50m RMS
V 0.85m RMS
REAL TIME KINEMATIC (<30km) - NRTK³
Fixed RTK Hz 8mm + 1ppm RMS
Fixed RTK V 15mm + 1ppm RMS
- Internal Radio:⁶
Type Tx-Rx
Frequency range: 410-470 Mhz

Environmental

- Dimensions: 222mm x 164mm x 79mm
Weight: 2kg
Operating temperature: -40 deg. C to 65 deg. C
Storage temperature: -40 deg. C to 80 deg. C
Water/Dust proof: IP 67
Shock resistance: 1.2m pole drop
Vibration: Vibration resistant
- Internal modem: GSM/GPRS/EDGE: 900/1800Mhz
WCDMA: 900/2100Mhz ; LTE: 800/2600Mhz
- Operating system : Linux

Communication

- Power port, Lemo connector
3 serial port, Lemo connector
USB port, Lemo connector
Ethernet port: RJ 45 10/100Mbit
1PPS, SMA female
Event, SMA female
OSC, MMCX female⁵
GNSS antenna, TNC female
LTE, SMA female
UHF, TNC female
SIM, mini pop-push type

Input/Output

- Bluetooth: 2.1 Ghz + EDR
- Wifi: 802.11 b/g/n hotspot/client mode
- Reference outputs: RTCM 2.3, 3.0, 3.2
CMR, CMR+, RTCA, RINEX, BINEX
- WebUI: To manage

User Interface

- Buttons: 7 keys, function keys + power key
- LEDs: 4 LEDs which show Bluetooth, differential transmission, static record and power
- OLED display: 64 x 256 pixels, mono color display

Networking services

- NTRIP: Caster/Server/Client
- FTP server: For data download
- Email alerts: For low storage and other warning messages

Power supply

- Battery: Rechargeable Lithium battery :
7.2V - 13600 mAh
- Working time: Upto 20 hours
Charging time: Approx 15 hours



Related Products



¹ Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions, and obstructions. In static mode they are even subject even to occupation times, the longer the baseline the longer must be occupation time

² Depends on SBAS system performance

³ Network RTK precision depends on the network performances and are referenced to closest physical base station

⁵ For model only w/o radio

⁶ For model only with radio

Illustrations, descriptions and technical specifications are not binding and may change



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Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904
FAX:+86 512 65230619
Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China
Headquarters: Lat N31°15'48.6" , Long E120°40'2.1"



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