A100 Plus CORS System

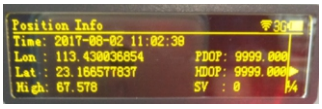


- High performance, large memory:
  Equipped with TI ARM9 core 866MHz processor, 32G system space + 512M memory, faster computing speed and stronger performance
- Portable UPS power supply design:
  The built-in large-capacity battery can still last for 20 hours in the event of a power failure, ensuring the normal operation of the base station
- Sharp screen, easier operation:
  The high-resolution OLED display shows the status of satellites and other satellites in real time, and is more convenient to use with buttons
- Intelligent remote management:
  It comes with a wifi module, which can log into the WebUI through wifi to set the instrument function, and also supports SNRS remote configuration function
- The means of output are more abundant:
  Supports CMR, CMR+, RTCM (2.0, 2.3, 3.X) multiple differential formats, stronger signal, standard 50Hz data output, high dynamic output of accurate position information.

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Specifications







Bluetooth™

GNSS engine

- 1408 channels(All constellations and all bands reception):

  BDS：B1I/B2I/B3I/B1C/B2a/B2b
  GPS：L1C/A/L2P(Y)/L2C/L5
  GLONASS：G1/G2/G3
  Galileo：E1/E5a/E5b/E6
  QZSS：L1/L2/L5

Accuracy

- RTK
  Horizontal :±8mm + 1ppm
  Vertical :±15mm + 1ppm
- Static
  Horizontal :±2. 5 mm + 0.5ppm
  Vertical :±5 mm + 0.5ppm
- Initialization time: <5s(typical)
  Initialization reliability: >99.9%

Communication

- Operating system: Linux
- Bluetooth: V2.1+EDR, V4.1
- WIFI: 802.11b/g/n, can be connected to a WiFi hotspot, or can be used as a WiFi hotspot by itself
- WEBUI wireless management: host upgrade, data download, parameter setting, station setting and others
- Network: fits all 4G networks
- Interface: 2 high-speed (115.2Kbps) standard RS232 serial ports, 1 DB9 serial port, 1 RJ45 network interface, 1 TNC standard antenna interface

Physical

- Input voltage: 9V-16V DC wide voltage input
- Built-in battery: 12000mAh
- Power consumption:2.8W
- Built-in storage: 4GB built-in storage (expandable up to 32GB)
- Differential outputs: CMR, CMR+TM, sCMRxTM, RTCM 2.x, RTCM 3.x
  Positioning output: NMEA-0183, GSV, GGA, GSA, ZDA, VTG, GST, RMC, GLL
- Weight: 2KG
- Dimension: 222mm*164mm*79mm

Choke Antenna

- Frequency range:
  GPS L1/L2/L5 BDS B1/B2/B3
  GLONASS G1/G2
  Galileo E1/E2/E5a/E5b/E6
- Impedance: 50
- Polarization mode: right-handed circular polarization
- Antenna axial ratio: 3dB
- Horizontal coverage: 0°~360°(Pitch angle 5°~90°)
- Output standing wave: 2.0
- Maximum gain: 7dBi
- Phase center deviation: ±1mm

Enviromental

- Humidity: 95% condensing
- Operating temperature: -40°C to +85°C
- Storage temperature: -55°C to +85°C

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

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