



# CORS

GNSS Reference Station

## Product Overview



## Details

### SATELLITE TRACKING

- Performance
- Channels : 965
- Satellites tracking:      GPS: L1 C/A, L2C, L2P, L5
- BeiDou: B1, B2, B3
- BeiDou Global Signal: B1C, B2a, B2b
- GLONASS: L1 C/A, L1P, L2 C/A, L2P
- Galileo: E1, E5a, E5b
- QZSS, IRNSS
- L- Band
- SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM

### POSITION PERFORMANCE

- Measurement precision
- Pseudo Range Precision: <10cm
- Carrier Phase Precision  
0.005c (c: carrier wave length of GNSS signal, in meter)
- Time Accuracy : 20nS
- Post Processing:
  - Horizontal: 2.5 mm + 1 ppm
  - Vertical: 5 mm + 1 ppm
- Single Baseline RTK:
  - Horizontal: 8 mm+1 ppm
  - Vertical: 15 mm+ 1 ppm
- Initialization time:      <10 s

### COMMUNICATION

- Ethernet - 1x RJ45
  - IP4/IP6
  - 3x TCP Ports
  - Email Alerts
- WiFi - Access point and client mode
- 1x Serial Port
- 1x RS485 Port
- TNC ANTENNA Connector
- 1x Met Sensor Input
- 1x PPS Output

### INPUT/OUTPUT FORMATS

- Correction format
  - RTCM3.2
- RAW DATA
  - CNB,RINEX
- Position status
  - NMEA 0183

- 1x Event Input

#### USER INTERFACE

- Front panel display
  - OLED Display
  - Buttons for configuration
- Web User Interface
  - Allows remote configuration, data retrieval and firmware updates

#### Data Logging

- Onboard memory up to 8GB
- External Memory support up to 1TB
- Data logging rate 1Hz
- File log duration 1Hr to 99Hrs
- File Formats
  - CNB,RINEX
- Data Retrieval and transfer
  - HTTP, FTP,USB

#### ANTENNA SUPPORT

- Output Voltage : 5V DC
- Recommended antennas
  - GN100
- Maximum output current : 100mA
- Gain : 20 ~ 40dB

#### ENVIRONMENT

- Operating Temperature
  - -40 to +65 degree Celcius
- Storage Temperature
  - -40 to \_85 degree Celsius

#### SECURITY

- HTTP Login
- Programmatic Interface authentication
- NTRIP

#### ELECTRICAL

- 10.8V to 15V Input on 2 LEMO PORTS
- Integrated 7.4V/2200mAh Li-ION Battery
- Seamless switching between external and Internal Power source