

CORS-GNSS REFERENCE STATION RECEIVER

NET 20 Pro



- › Up to 555 GNSS channels
- › Maximum efficiency and reliability, to let a project become an ageless landmark
- › Proven tracking technology for CORS GNSS reference station

Robust and easy to use, the Net20 Pro is long term investment. Its efficiency and flexibility assure you high quality data for your projects, and for many years.

Ensure the proximity and reliability of your own reference station while eliminating your RTK corrections service charge. Net20 Pro provides you superior connectivity and accuracy in addition to controlling user's access.

The Net20 Pro can be controlled with NTRIP Caster software (included).

RTK correction can be transmitted by DIP and NTRIP:

- Transmission of RTK corrections permanently with simple local internet connection from your (LAN) working network.
- Manage users and availability of your correction data with control over access of your IP address.



RECEIVER

| | |
|-------------------|--|
| Satellite Tracked | GPS: L1 CIA, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3, L5 BeiDou: B1/B2/B3 Galileo: E1/E5/AltBOC/E5a/E5b/E6 IRNSS: L5 QZSS: L1CA/L1C/L2C/L5/L6 SBAS: L1, L5 |
| L-Band | Yes |
| Channels | 555 |
| Internal Memory | 32 Go Multi storage sessions |

POSITIONING

| | |
|---|----------------------|
| High Precision Static Surveying | |
| Horizontal | 3 mm+ 0.1 ppm RMS |
| Vertical | 3,5 mm + 0,4 ppm RMS |
| Code Differential Positioning | |
| Horizontal | 0.25 m RMS |
| Vertical | 0.45 m RMS |
| SBAS Positioning | |
| Horizontal | 0.50 m RMS |
| Vertical | 0.85 m RMS |
| Real Time Kinematic (< 30 Km) - Network Surveying | |
| Horizontal | 8 mm + 1 ppm RMS |
| Vertical | 15 mm + 1 ppm RMS |

INTERNAL RADIO

| | |
|-----------------|-------------------------------------|
| Type | TX - RX |
| Frequency Range | 410 - 470 MHz |
| Channel Spacing | 12.5 KHz / 25 KHz |
| Maximum Range | Up to 10 Km with optimal conditions |

USER INTERFACE

| | |
|--------------|---|
| Buttons | 7 keys, function keys + power key |
| DEL | 4 LEDs, Bluetooth, differential transmission, static record, and power state. |
| OLED display | 64 x 256 pixels, mono color display |

INCLUDED ACCESSORIES



COMMUNICATION

| | |
|--------------------|--|
| 1/0 Connectors | Power port, Lemo connector 3 Serial port, Lemo connector USB port, Lemo connector Ethernet port, RJ45 10/100 Mbit 1 PPS, SMA female, event, SMA female OSC, MMCX female GNSS antenna, TNC female LTE, SMA female, UHF, TNC female SIM, Mini card push-pop type |
| Bluetooth | 2.1 GHz+ EDR |
| Wi-Fi | 802.11b/g/n hotspot/client mode |
| WebUI | Via smart phone, tablet or other internet enabled electronic device |
| Reference outputs | RTCM 2.3, 3.0, 3.2, CMR, CMR+, RTCA, RINEX, BINEX |
| Navigation outputs | GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL |

NETWORKING SERVICES

| | |
|-------------------|--|
| NTRIP | Caster/Server/Client |
| Remote Management | By Software |
| FTP server | For data download |
| Email alerts | For low storage and other warning messages |

POWER SUPPLY

| | |
|--------------|--|
| Battery | Rechargeable lithium battery 7.2 V - 1 3600 mAh |
| Voltage | 9 to 28 V OC extremal power input |
| Working Time | Up to 20 hours |
| Charge Time | Typically 15 hours |

PHYSICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Dimensions | 222 mm x 164 mm x 79 mm |
| Weight | 2.00 Kg |
| Operating Temperature | -40 °C to 65 °C (-40 °F to 149 °F) |
| Storage Temperature | -40 °C to 80 °C (-40 °F to 176 °F) |
| Waterproof /Dustproof | IP67 |
| Shock Resistance | Designed to endure to a 1.2 m pole drop on concrete floor with no damage |
| Vibration | Vibration resistant |

SYSTEM CONFIGURATION

| | |
|------------------|-------|
| Operating System | Linux |
|------------------|-------|

Authorized Distributor