

Reference Station Receiver



- Super Low Power Consumption
- 144 Universal Channel Satellite Tracking
- Superior Signal Tracking and Performance
- 100Hz Selectable Data Update Rate
- Up to 32GB memory card for data storage

Advanced Reference Station Receiver

Using a unique patented technology, the NET-G3A incorporates 144 Universal Tracking Channels, capable of tracking all GPS and GLONASS satellites.

With the incorporation of GPS, GPS L2C and L5, as well as GLONASS; Topcon offers the ultimate network receiver



solution, providing the very best reference station solution for your network users. When used with its companion, the CR-G5 choke ring antenna, the NET-G3A is the ultimate reference station solution. The NET-G3A boasts complete system connectivity. USB, Ethernet, and four serial ports combined with an industry leading 100Hz data rate, the NET-G3A offers high speed connections both in and out of the reference station.

Two new features have been introduced in the NET-G3A receiver: USB Host and HTML Web User Interface. The USB Host feature allows the user to connect a USB memory stick or USB Mass Storage Device (UMS) to the NET-G3A receiver. The UMS provides a sleek and high-capacity storage solution for transferring raw data files from the receiver's CF card. The NET-G3A also includes a built-in Web server that allows the user to configure and monitor the receiver via a Web user interface (or Web interface). The built-in Web server and Web interface use HTTP/HTTPS protocols for communication.

SPECIFICATIONS

Tracking

Number of Channels	144 Universal Channels
Signals Tracked	GPS L1, L2, & L5 carrier, CA, L1 P, L2 P, L2C GLONASS L1, L2, & L5 carrier, L1CA, L2CA, L1 P, L2 P
WAAS/EGNOS	Yes
Antenna Type	CR-G5 Choke ring, G3-A1 Geodetic, PN-A5 Full Spectrum

Accuracy

Real time RTK accuracy	H: 10mm+1ppm V: 15mm+1ppm
Post processed Static	H: 3mm+0.5ppm V: 5mm+0.5ppm

Data & Memory

Internal Memory	None
Additional Memory	Removable CF Memory Card up to 32GB* and USB Host that allows to utilize a USB mass storage device
Data Update/Output Rate	1-100Hz Selectable
Real Time Data Output	TPS, RTCM SC104 ver 2.1, 2.2, 2.3, and 3.0, CMR, CMR+, BINEX
ASCII Output	NMEA 0183 version 2.1, 2.2, 2.3, 3.0 and 3.01
Other I/O Signals	1pps, Event Marker, External Frequency input, 20 MHz frequency output
Control & Display Unit	GUI external software interface

Communications

TCP/IP Address	Up to 5 different address ports standard
NTRIP	Client and Server functionality
Ports	4 Serial, 1 USB, 2 Power, 1 Ethernet
HTML Web User Interface	Access via Internet - Explorer, Firefox, and Opera

Physical Characteristics

Status Indicators	6x3 color LED's
User Interface	2 Key
Dimensions	(W x H x L) 166mm x 93mm x 275mm 6.54" x 3.66" x 10.83"
Weight	3.0 kg (6.61 lbs)

Power

Internal Power	2 Lithium Ion batteries 7.4 Volts, 6000 mA-hr
External Power Input	6 to 28 Volts DC
Typical Power Consumption	Less than 4.5 Watts
Power Ports	2, 1 primary, 1 secondary

Environmental

Enclosure	Aluminum
Operating Temperature	-40°C to 65°C
Storage Temperature	-40°C to 75°C
Environmental Specification	IP67 waterproof/dustproof, MIL-STD 810F

* Firmware version 4.0 or newer is required



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