



STONEX

RSNET4 Continuously Operational Reference System



Technical features	RSNET4
GNSS module specifications	
Channels	220
Satellite signals tracked	
GPS	Simultaneous L1 C/A, L2E, L2C, L5
Glonass	Simultaneous L1 C/A, L1 P, L2 C/A (GLONASS M only), L2 P
SBAS	Simultaneous L1 C/A, L5
Reserved Satellite signals tracked	
Compass	B1 (QPSK), B1-MBOC (6, 1, 1/1, 1, B1-2 (QPSK), B2 (QPSK), B2-BOC (10, 5), B3 (QPSK, B3BOC (15, 2.5), B3 (QPSK) B3BOC (15, 2.5), L5 (QPSK)
Galileo	
Giove-A	Simultaneous L1 BOC, E5A, E5AltBOC1
Giove-B	Simultaneous L1 CBOC, E5A, E5AltBOC1
Advanced Trimble Maxwell 6 Custom Survey GNSS Technology	
High precision multiple correlator for GNSS pseudorange measurements	
Unfiltered, unsmoothed pseudorange measurements data for low noise, low multipath error, low time domain correlation and high dynamic response	
Very low noise GNSS carrier phase measurements with < 1 mm precision in a 1 Hz bandwidth	
Signal-to-Noise ratios reported in dB-Hz	
Trimble low elevation tracking technology	
Initialization time	10 Seconds
Initialization reliability	> 99.9%
Accuracy	
Static horizontal accuracy	3mm $1 \pm$ ppm (RMS)
Static vertical accuracy	5mm \pm 1ppm (RMS)
Data store and output	
Storage capacity	4GB, record raw data (5s interval) for over 12 months
1 Hz, 2 Hz, 4 Hz, 10 Hz, 20 & 50 Hz positioning outputs (depends on installed option) up to 50 Hz raw measurement & position outputs	
Reference outputs CMR, CMR+, RTCM 2.1, 2.2, 2.3, 3.0, and 3.1	
Navigation outputs ASCII	NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GKK, GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GBS and binary (Trimble GSOF)
Electrical specifications	
Voltage	10-14DC power
Power	3.0W
Interface	
1 RJ45 port (10m/100m), support TCP/IP, HTTP, NTRIP protocol	
3 RS232 ports, can transmit local RTCM/CMR correction, support meteorological instrument, barograph, clinometers etc., sensor	
1 multi-function port, support to debug serial port and USB	
1 external frequency scale not support high-precision atomic clock	
Structure	
Dimension	L202 x W163 x H75
Weight	1.4KG
Waterproof	
Dustproof	
Work Environment and Size	
Work temperature	-40°C - +75°C
Work Humidity	10% - 95%

