



VNet 8

GNSS Reference Receiver



● VNet8 Reference Receiver

The Hi-Target VNet8 GNSS reference receiver offers an industry-leading 1408 channels for excellent GNSS multi-constellation tracking performance. On the strength of Hi-Target's sophisticated GNSS technology and the years of experiences in establishing CORS/VRS system, the VNet8 will provide you with reliable communication, better performance, stronger stability and safety.



● Key Features



Brand new housing and multiple I/O interface enhance the stability and functional expansionary.



High speed micro CPU, 64GB internal storage and 12500mAh internal battery provide you with better user experience.



Embedded OS firewall and encrypted communication ensure your data privacy and security.



Total-star constellation VRS technology and high precision error correction technology support longer baseline processing and reliable correction data.



Designed as a perfect member of distributed system, making the CORS system support large-scale network and massive online users.

● Specifications

GNSS Channels	1408		
GNSS Feature	GPS: L1C/A, L1C, L2P(Y), L2C, L5 BDS: B1I, B2I, B3I, B1C, B2a, B2b GLONASS: G1, G2, G3 Galileo: E1, E5a, E5b, E6 QZSS: L1C/A, L1C, L2C, L5, L6 NavIC: L5 SBAS: L1C/A	I/O Interface	3 X RS232 serial port, 2 X USB port, 1 X 485 port 1 X Ethernet port(RJ-45), 1 X WiFi Host(802.11b/g/n) 2 X SMA port(1 for PPS and 1 for 4G modem antenna) 2 X TNC port
Positioning Performance	High-Precision static: 2.5 mm + 0.1 ppm RMS (H) 3.5 mm + 0.4 ppm RMS (V) Static and fast static: 2.5 mm + 0.5 ppm RMS (H) 5mm + 0.5 ppm RMS (V) Network RTK: 8mm + 0.5ppm RMS (H) 15mm + 0.5ppm RMS (V) Initialization time: Typically 2-10s Initialization reliability: Typically > 99.9% Raw data updating rate: Up to 50Hz	User Interface	4 X physical buttons 4 X LED lamps, OLED display, 128 X 64 pixels 248mm(L) X 153mm(W) X 68mm(H) Operating temperature -40°C~75°C Storage temperature -40°C~80°C Humidity: 100%
Data Format	Position updating rate: Up to 50Hz Static data: GNS, RINEX RTK correction format: CMR, RTCM2.X, RTCM3.0, RTCM3.2 NMEA-0183	Physical Features	Proof against water, sand and dust: IP68 and MIL-STD-810G -Method510.5 – Procedure I Vibration: MIL-STD-810G-Method Figure514.6C-1 and Table 514.6C-II Immersion: MIL-STD-810G, Method 512.5-Procedure I Weight=2.5Kg including 480g internal battery
Storage	On board memory: 64GB internal storage + TF card/USB extension	Power Input	7V – 36V, DC / 2A
Operation	Web-client management via Ethernet, Wi-Fi	Power	<7W, less than 5W without using internal 3G/2G wireless modem
		Battery	Internal 12500mAh lithium battery Duration: More than 15 hours
		Ethernet Communication	RJ45 Jack, support HTTP, NTRIP, Unlimited streams of correction transmitting and threads of data logging





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