

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.



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



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



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



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

• 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 Position 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	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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