

## • VNet8 Reference Receiver

The Hi-Target VNet8 GNSS reference receiver offers an industry-leading 220 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

<b>GNSS Channels</b>	220	555 (Optional)	
<b>GNSS Feature</b>	GPS: L1C/A, L2C, L2E, L5 GLONASS: L1C/A, L1P, L2C/A, L2P BDS: B1, B2 GALILEO: L1 BOC, E5A, E5B, E5AItBOC SBAS: L1 C/A, L5 (EGNOS, WAAS, MSAS, GAGAN, QZSS)	GPS: L1 C/A, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3, L5 BDS: B1, B2, B3 GALILEO: E1, E5 AItBOC, E5a, E5b, E6 SBAS: L1, L5; QZSS: L1 C/A, L1C, L2C, L5, L6; IRNSS: L5 TerraStar Correction Services (Optional)	<b>I/O Interface</b> 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 3G modem antenna) 2 X TNC port
<b>Positioning Performance</b>	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 20Hz Position updating rate: Up to 50Hz Static data: GNS, RINEX RTK correction format: CMR, CMR+, RTCM2.X, RTCM3.0, RTCM3.2 RTCA and NOVATELX reserved NMEA-0183 V2.0/V2.3		<b>User Interface</b> 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% <b>Physical Features</b> 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
<b>Data Format</b>	On board memory: 64GB + Up to 1 TB TF card extension		<b>Power Input</b> 11V – 36V, DC / 2A <b>Power</b> <7W, less than 5W without using internal 3G/2G wireless modem <b>Battery</b> Internal 12500mAh lithium battery Duration: More than 20 hours (> 16 hours with internal 3G/2G wireless modem) <b>Ethernet Communication</b> RJ45 Jack, support HTTP, NTRIP, Unlimited streams of correction transmitting and threads of data logging
<b>Storage</b>			
<b>Operation</b>	Web-client management via Ethernet, Wi-Fi		

Descriptions and Specifications are subject to change without notice

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