

VNet 8

GNSS Reference Receiver



• VNet8 Reference Receiver

The Hi-Target VNet8 GNSS reference receiver offers an industry-leading 336 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 expansion-ary.



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	336	555 (Optional)	
	GPS: L1 C/A, L2E, L2C, L5	GPS: L1 C/A, L1C, L2C, L2P, L5	
	GLONASS: L1 C/A, L2 C/A, L3 CDMA	GLONASS: L1 C/A, L2C, L2P, L3, L5	
GNSS Feature	BDS: B1, B2, B3	BDS: B1I, B1C, B21, B2a, B2b, B3I	
	GALILEO: E1, E5A, E5B, E5AltBOC, E6	GALILEO: E1, E5 AltBOC, E5a, E5b, E6	
	IRNSS: L5	IRNSS: L5	
	QZSS: L1 C/A, L1 SAIF, L2C, L5, LEX	QZSS: L1 C/A, L1C, L1S, L2C, L5, L6	
	SBAS: L1 C/A, L5	SBAS: L1, L5;	
	RTX (Optional)	Terrastar Correction Services (Optional)	
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 20Hz		
	Position updating rate: Up to 50Hz		
Data Format	Static data: GNS, RINEX		
	RTK correction format: CMR, RTCM2.X, RTCM3.0, RTCM3.2		
	NMEA-0183		
Storage	On board memory: 64GB internal storage + TF card/USB extension		
Operation	Web-client management via Ethernet, Wi-Fi		
			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
			I/O 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%
			User Interface
			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
			Power Input
			7V – 36V, DC / 2A
			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
			AUTHORIZED DISTRIBUTION PARTNER
			24J329



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