-survey

eHP10

INDUSTRY DESIGN HEADING AND NAVIGATION GNSS RECEIVER

As a heading GNSS receiver, the eHP10 integrates dual-antenna, TX/RX radio, lora, serial port and 4G network, with a variety of working modes, suitable for Machine control, Marine survey, Geodesy and other industries.Due to its unique interface and internal design, the eHP10 greatly improves the waterproof and shock resistance performance, and can work stably in a variety of environments.



Dual Antenna: Heading and Navigation

Connect positioning and heading antennas to the eHP10 to output heading information and be used in scenarios with heading demands.

Internal Radio/Lora

The eHP10 has internal radio and supports Satel, PCC, TrimTalk, Trimark III, South, and HiTarget radio protocols, ensuring it can work properly even in bad network conditions.

Richer Data Interface: Making Versatile Applications Possible

Enjoy multiple data interfaces, such as DB9 serial port, M12 serial port, 1PPS, CAN, Event, UHF, to various applications and etc., to conveniently facilitate synchronization with other devices.

Rich Wireless Communication

The eHP10 supports Wi-Fi, Bluetooth, Ethernet, and SIM cards. Users can send or receive data through any method.

Rugged Design: Designed for Harsh Environments

Drop it from a height of 1.5 m without any damage and enjoy a dustproof and waterproof rating of IP67, salt spray proof level of C4, mold proof level 1 to use it in all harsh vibration environments, such as vehicles and aviation, due to its simple and modular internal structure design.

Suitable for Base and Rover

Its lightweight design makes the eHP10 perfect as a rover or base station for multiple applications.



Product Specification

eHP10 INDUSTRY DESIGN HEADING AND

NAVIGATION GNSS RECEIVER



GNSS	I	
	GPS	LICA, L2P (Y), L2C, L5
	BDS	B1I, B2I, B3I
	GLONASS	L1, L2
Satellites tracking	GALILEO	E1, E5a, E5b
	QZSS	L1, L2, L5
	SBAS	LI
	L-BAND	B2b-PPP (Only for the Asian-Pacific region E6HAS
Channels		1408
Signal reacquisition		< 1 second
Cold Start		< 60 seconds
Warm Start		< 30 seconds
Hot Start		< 10 seconds
Initialization reliability		> 99.9%
Update Rate		20Hz standard
Operation system		Linux
Internal Memory		32GB
External memory		Support TF Card
	,	-
Performanc	e	
RTK		H: 8 mm + 1 ppm RMS
		 V: 15 mm+ 1 ppm RMS
DGPS		H: 0.4 m
		 V: 0.8 m
Heading		0.2°@1.0 m Baseline
		· · ·
IPPS		20 ns
Power Supp	blv	
Power		2-pin DC in
Power Voltage		10 - 28V dc
Internet Mo	dem	
Supported band		Global GSM, WCDMA, LTE
Supported b		
Internal Ra	dio	
		TX and RX
Туре		410 - 470 MHz
Frequency range		
Channel spacing		12.5 KHz / 25 KHz
Emitting power		1 W
Operating range		 3 - 5 km typically 10 km with optional conditions
Protocol		Satel, PCC, TrimTalk, TrimMark III, South, HiTarget
Lora (Optio	nal)	

410.125 - 480.125 MHz

2400-62500

Frequency range

+86 400-999-8088

Baud Rate

In

Communication		
Bluetooth	BT5.0 + RDR, compatible with LE	
Wi-Fi	802.11 b.g. access point and client mode WPA/WPA2/WEP64/WEP128 encryption	
Ethernet	\checkmark	
Port	 2-pin, DC in DB9 male, RS232 M12 female (* RS232+RS485+CAN+EVENT+IPPS) RJ45 Ethernet UHF standard, (Lora, TNC female, optional LTE, TNC female GNSS TNC female x 2 Nano SIM TF Card 	
Baud rate	4800 - 460800	
WEB UI	\checkmark	
NMEA Output	NMEA0183	
Correction Data	RTCM2.x, RTCM V3.2,CMR,CMR+	
Recording Format	Binary, RINEX, BINEX	
Correction Data	RTCM V3.0,RTCM V3.3. RTCM2.3, CMR.DGPS,RAW	
Data Stream	 Bluetooth Serial port x 2 Ntrip Server stream x 4 Ntrip Caster stream x1 Ntrip Client stream x 1 Socket (TCP/UDP) stream x5 	
FTP Function	FTP serverFTP client (FTP push)	
NTP Server	\checkmark	
Alerts	E-mail, SMS	
Others	DDNS, SNMPD, Firewall, VPN, Frp	
Device Management	Wi-Fi, Bluetooth, Serial	

Physical				
Dimension	158.4 mm x 142.4 mm x 33.6 mm			
Weight	670g			
Indicators	Heading, Cellular, Datalink			
Operation temperature	-40°C - +80°C			
Storage temperature	-45°C - +85°C			
Humidity	Up to 100%			
Shock	Survive a 1.5 m drop on concrete floor			
Water/Dust Proof	IP67			
Salt Spray Proof	C4			
Mold Proof	Level 1			
Maximum speed	1854km/h (1000 kts)			
Certificate	CE, FCC			

