

NET660i Heading Version (NET660i-H) is a cost-effective and miniaturized GNSS receiver designed for the construction of Beidou ground-based augmentation system. It has built-in Linux operating system, completely independent intellectual property development, rich interface types, diverse communication methods, and supports large-capacity data storage. NET660i-H supports full system and frequency, and dual-antenna directed positioning solution with dual-antenna independent differential output capability. It is the best choice for the construction of the mechanical intelligent control system.



## Characteristic

### Linux intelligent system

Qualcomm Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.

### Multi constellation

With its 1408 channels, NET660i-H provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO and QZSS) are included.

### Rich interfaces & various communication methods

The host provides Ethernet, WIFI, serial, Bluetooth and mobile network interfaces for customers to choose.

### Compatible with multiple protocols

NET660i-H support Ntrip Client/Server/Caster, TCP Client/Server connection, FTP protocol file transfer, HTTP/HTTPS protocol, private network transfer function with protection policy.

### Cloud service function

The NET660i-H can regularly report the host status such as device location, network status, signal strength, star reception status, etc., and supports cloud platform to restart, reset, and upgrade the remote device.

### Support front-end solution

The NET660i-H supports the front-end calculation function, which can complete the static data calculation on the host inside and upload the results to the cloud, which greatly reduces the requirements for the computing power of the cloud server.

### IP68 Design

Industrial design, solid magnesium alloy shell, in line with IP68 design requirements, safe and reliable.



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ITEM		SPECIFICATION
<b>HARDWARE SYSTEM</b>		<b>Qualcomm Cortex-A7</b>
<b>OS</b>		<b>Linux</b>
<b>GNSS</b>	GPS	L1C/A, L1C, L2P(Y), L2C, L5
	GLONASS	L1, L2
	BDS	B1I, B2I, B3I
	GALILEO	E1, E5a, E5b
	QZSS	L1, L2, L5
	Channel	1408
	Differential Observation Accuracy (RMS)	10.0cm
	Kinematic Phase Observation Accuracy (RMS)	1.0cm
	Data format	RINEX, Custom
	Position Data	NMEA-0183
	Differential Data	RTCM 3.X
	Data update frequency	1Hz, 2Hz, 5Hz, 10Hz, 20Hz
	Receive Data Availability	≥ 98%(Data available/Data collected)
	Data Integrity	≥ 98%(Data collected/Data should be collected)
	Single (RMS)	Horizontal: 1.5m    Vertical: 2.5m
	RTK(RMS)	Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm)
	Static Accuracy (RMS)	Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm)
Time Accuracy (RMS)	20ns	
Heading Accuracy (RMS)	0.2° /m	
<b>SYSTEM</b>	Serial Port	Standard RS232 interface, Baud rate supports 1200, 2400, 4800, 9600, 19200, 38400, 115200, 230400bps
	Network port	Standard RJ45 interface, 10/100Mbps network adaptive
	USB	Integrated on the 7-pin interface, support access to the computer to copy data directly
	Network Communication (Full Netcom)	LTE FDD: B1/2/3/5/8 LTE TDD: B38/39/40/41 GSM: 900/1800MHz
	Interface	PWE*1: Power supply port    DATA*1 SIM*1: Standard SIM card    Ethernet*1 GNSS*2: Main antenna    4G*1: 4G antenna port
	Storage	32GB, circular storage support multi-channel storage
<b>ELECTRICAL CHARACTERISTIC</b>	Voltage Input	9-24V DC (12V typical)
	power dissipation	2W (typ)
<b>ENVIRONMENT</b>	Operating Temperature	-40~+85°C
	Storage Temperature	-40~+85°C
	Protection Class	IP68
<b>PHYSICAL</b>	Material	Magnesium alloy main body



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Dimension	135mm*102mm*47mm
Weight	≤0.47kg

▲ Manufacturers may update parameters at any time, please refer to the latest product information.

- ▶ Equipped with electronic fence system, Toknav's product have area code restrictions. Any issue please contact Toknav or local dealers to verify the specific details.



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