NET660i GNSS Receiver

TOKNAV

NET660i 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. It is the best choice for the construction of the Beidou ground-based augmentation 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 provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO, QZSS and SBAS) are included.

Rich interfaces and various communication methods

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

Compatible with multiple protocols

NET660i 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 host 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 host 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	REMARKS
HARDWARE SYSTEM		Qualcomm Cortex-A7	
OS		Linux	
GNSS	GPS	L1C/A, L1C, L2P(Y), L2C, L5	
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	QZSS	L1, L2, L5	
	SBAS	L1	
	NavIC (IRNSS)*	L5*	IRNSS support in future
	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	
SYSTEM	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 PPS* 1 SIM*1: Standard SIM card Ethernet*1 GNSS*1: Main antenna 4G*1: 4G antenna port	
	Storage	32GB, circular storage support multi-channel storage	
ELECTRICAL CHARACTERISTIC	Voltage Input	9-24V DC (12V typical)	
	power dissipation	1.8W(typ)	
ENVIRONMENT	Operating Temperature	-40~+85℃	
	Storage Temperature	-40~+85℃	
	Protection Class	IP68	

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PHYSICAL	Material	Magnesium alloy main body	
	Dimension	135mm*102mm* x47mm	
	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.

Europe, North & South America
Tel & WhatsApp: +1 (323) 847-7713 (Ian)
Asia, Africa & Oceania
Tel & WhatsApp: +86 139 2607 5986 (Jeffrey)

⊕ **www.toknav.cn**   ✉ **info@toknav.cn**