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TOKNAV



GNSS Receiver **NET660i-H**

Positioning & Orientation Receiver

NET660i-H GNSS Receiver

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

ARM 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

NET660i-H provides Ethernet, serial and mobile network interfaces for customers to choose.

Compatible with Multiple Protocols

NET660i-H supports 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

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

Support Front-end Solution

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

NET660i-H GNSS Receiver

Positioning & Orientation Receiver

IP68 Design

Magnesium alloy main body

1408 Channel

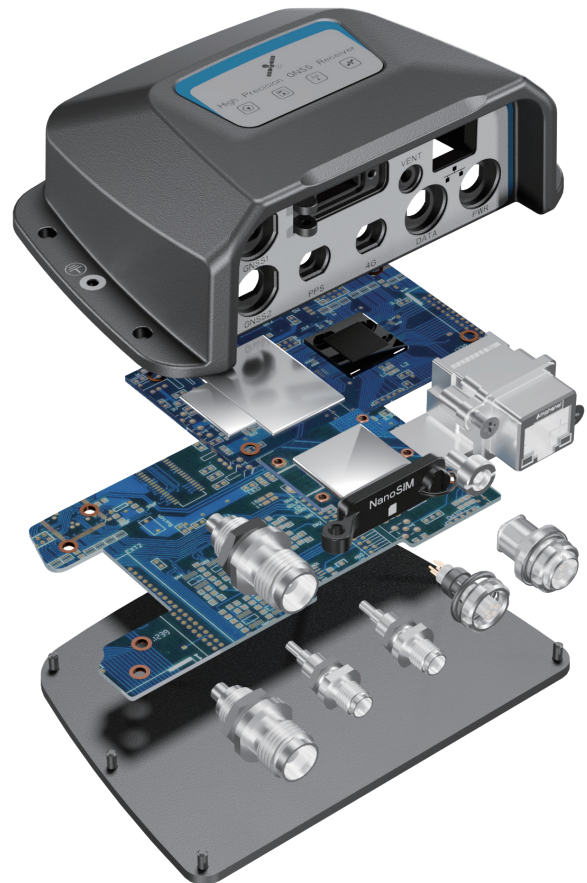
GPS GLONASS BDS GALILEO
QZSS SBAS

Abundant Hardware Interface

PWE DATA PPS SIM Ethernet
4G GNSS*2

Safe encrypted data and
cloud management

Intelligent Linux OS and
flexible route management



WIDTH	HEIGHT	LENGTH	WEIGHT
105 mm	50.3 mm	148.8 mm	490 g

Comprehensive network coverage
Intelligent serial baud rate identification
Cloud service function
Dual antenna positioning and IMU (optional)

SPECIFICATION

SYSTEM	
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz
OS	Linux
GNSS	
GPS	L1C/A, L2P/L2C, L5
GLONASS	L1, L2
BDS	B1I, B2I, B3I, B1C*, B2b(PPP)
GALILEO	E1, E5a, E5b, E6(PPP)
QZSS	L1, L2, L5
SBAS	L1C/A
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)
Timing Accuracy (RMS)	20ns
Heading Accuracy(RMS)	0.2°/m

SYSTEM	
Serial Port	Standard RS232 interface, Baud rate supports 1200, 2400, 4800, 9600, 19200, 38400, 115200, 230400bps
USB	Integrated on the 7-pin interface, support access to the computer to copy data directly
Network port	Standard RJ45 interface, 10/100Mbps network adaptive
Network Communication (Full Netcom)	LTE FDD: B1/2/3/4/5/7/8/12/13/ 18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8
Interface	PWE*1: Power supply port DATA*1 PPS*1 SIM*1: Nano SIM card Ethernet*1 GNSS*2: TCN port 4G*1: 4G antenna port
Storage	32GB, circular storage support multi-channel storage

ELECTRICAL CHARACTERISTIC

Voltage Input	9-24V DC(12V typical)
Power Dissipation	2W(typ)

ENVIRONMENT

Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
Protection Class	IP68

PHYSICAL

Material	Magnesium alloy main body
Dimension	148.8mm*105mm*50.3mm
Weight	490g

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



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