



# GNSS Receiver **NET660i**

Base Station Receiver

# NET660i GNSS Receiver

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

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 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 & Various Communication Methods

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

### Compatible with Multiple Protocols

NET660i 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 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 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.

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## Base Station Receiver

### IP68 Design

Magnesium alloy main body

### 1408 Channel

GPS GLONASS BDS GALILEO  
QZSS SBAS IRNSS

### Abundant Hardware Interface

PWE DATA PPS SIM Ethernet  
4G GNSS\*1

Safe encrypted data and  
cloud management

Intelligent Linux OS and  
flexible route management



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

Comprehensive network coverage  
Intelligent serial baud rate identification  
Cloud service function  
Support front-end solution

# SPECIFICATION

SYSTEM	
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz
OS	Linux
GNSS	
GPS	L1 C/A, L1C, L2P(Y), L2C, L5
GLONASS	L1, L2, L3
BDS	B1I, B2I, B3I, B1C, B2a, B2b(PPP)
GALILEO	E1, E5a, E5b, E6(PPP)
QZSS	L1, L2, L5
SBAS	L1(PPP)
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)
Timing Precision (RMS)	20ns

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*1: Main antenna 4G*1: 4G antenna port
Storage	32GB storage, circular storage support multi-channel storage
ELECTRICAL CHARACTERISTIC	
Voltage Input	9-24V DC(12V typical)
Power Dissipation	1.8W(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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