



# GNSS Receiver

# NET660

Basic System Construction Receiver

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NET660 GNSS receiver is a high-performance device engineered specifically for the construction of ground-based enhancement systems, such as those used with the Beidou navigation satellite system. It boasts an built-in Linux operating system and fully independent intellectual property rights. Its diverse interfaces and communication methods, along with support for event inputs, PPS outputs, and substantial data storage, make it an ideal choice for foundational system construction.

## CHARACTERISTIC

### Linux Intelligent System

Utilizing a Linux + ARM Cortex-A7 system platform, the NET660 offers efficient computation and endless possibilities for product function expansion.

### Comprehensive GNSS Receiver

The device integrates a high-precision positioning module capable of receiving and processing signals from a full array of systems and frequencies, including BDS (B1I/B2I/B3I, B1C/B2a/B2b), GPS (L1CA/L2P/L2C/L5), GLONASS (G1/G2), Galileo (E1/E5a/E5b), QZSS, SBAS, and IRNSS, providing complete system and full-frequency signal reception and solution.

### Advanced Positioning Capabilities

Features narrowband interference resistance and continuous wave interference suppression, enabling rapid initial positioning and fast satellite signal lock for quick and precise data acquisition necessary for subsequent processing.

### Versatile Connectivity Options

Offers Ethernet, WiFi, serial ports, Bluetooth, and mobile network interfaces, allowing for flexible connectivity solutions.

### Protocol Compatibility

Supports a variety of protocols including Ntrip Client/Server/Caster, TCP Client/Server, FTP for file transfers, and HTTP/HTTPS for secure communications over protected networks.

### IP68 Design

Features a robust aluminum alloy casing, designed to meet IP68 standards for durability and reliability, ensuring safe and dependable operation in challenging environment.

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### IP68 Design

Magnesium alloy main body

### Multi-Channel

GPS GLONASS BDS GALILEO  
QZSS NavIC

### 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 172 mm | HEIGHT 58 mm | LENGTH 148 mm | WEIGHT 1920 g

Comprehensive network coverage

13800mAh, Over 24 hours

Cloud service function

1.3-inch LCD display, visual experience

# SPECIFICATION

SYSTEM	
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz
OS	Linux
GNSS	
GPS	L1 C/A, L2P(Y), L2C, L5
GLONASS	L1, L2, L3
BDS	B1I, B2I, B3I, B1C, B2b, B2b
GALILEO	E1, E5a, E5b
QZSS	L1C/A, L2C, L5
SBAS	L1C/A
NavIC(IRSNS)*	L5*(Requires firmware support)
L-band	
Standard Output	NMEA-0183
Correction I/O Protocol	RTCM 3.X
Frequency	1Hz, 2Hz, 5Hz, 10Hz, 20Hz max
Reacquisition Time	<1s
Cold Start Time	<40s
ACCURACY	
Single(RMS)	Horizontal: 1.5m / Vertical: 2.5m
DGPS(RMS)	Horizontal: 0.4m / Vertical: 0.8m
RTK(RMS)	Horizontal: $\pm$ (8mm+1ppm) Vertical: $\pm$ (15mm+1ppm)
Timing Accuracy (RMS)	20ns
Static Mode Precision (RMS)	Horizontal: $\pm$ (2.5mm+1ppm) Vertical: $\pm$ (5mm+1ppm)
Data Availability	$\geq$ 98% (Data available/Data collected)
Data Completeness	$\geq$ 98% (Data collected/ Expected data to be collected)
INTERFACE	
Bluetooth	BR+EDR+BLE
WIFI	802.11 b/g/n
Network	Full frequency 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

Ethernet Port	Standard RJ45 interface, 10/100Mbps network adaptive
Serial Port	Two 5-pin connectors; standard RS232 interface with baud rates supporting 9600, 19200, 38400, 115200, and 230400 bps
Storage	32GB storage
INDICATOR	
LCD Display	Size: 1.3inch Resolution: 240*RGB*240
Power Indicator	Indicates power and charging status
Differential Signal Indicator	Indicates the status of network connection
Satellite Indicator	Indicates satellite reception status
Bluetooth Indicator	Indicates Bluetooth connection status
BATTERY / CHARGE	
Capacity	7.2V, 13800mAh
Endurance	Over 24 hours(Supports continuous data collection for 26 hours on a full charge)
Charging	TYPEC - USB PD 15V/2A 5V/3A LEMO - 12V/2A DC Input supported
ENVIRONMENT	
Operating Temperature	-20°C~+60°C
Storage Temperature	-20°C~+70°C
Shock Resistance	GB/T2423
Protection Rating	IP68
PHYSICAL	
Material	Magnesium alloy main body
Dimension	172mm*148mm*58mm
Weight	1920g
ACCESSORIES	
NET660	1 Unit
Power adapter	1 PCS
Serial Port	2 PCS
WIFI Antenna	1 PCS
4G Antenna	1 PCS

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



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