

The 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 in-built 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

Intelligent System Platform

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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ITEM		SPECIFICATION	REMARKS
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, B2a, B2b	
	GALILEO	E1, E5a, E5b	
	QZSS	L1 C/A, L2C, L5	
	SBAS	L1 C/A	
	NavIC (IRNSS)*	L5	
	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: 3m	
	DGPS (RMS)	Horizontal: 0.4m / Vertical: 0.8m	
	RTK (RMS)	Horizontal: \pm (8mm+1ppm) Vertical: \pm (15mm+1ppm)	
	Timing Precision (RMS)	20ns	
	Static Mode Precision (RMS)	Horizontal: \pm (2.5mm+1ppm) Vertical: \pm (5mm+1ppm)	
	Data Availability	\geq 98% (Available data/Collected data)	
	Data Completeness	\geq 98% (Collected data/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	Standard SIM Card
	Ethernet Port	Standard RJ45 interface, 10/100M adaptive	
	Serial Ports	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	TBD
	Charging	TYPEC - USB PD 15V/2A 5V/3A LEMO - 12V/2A DC input supported	With adaptive dynamic current adjustment



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ENVIRONMENT	Operating Temperature	-20℃~+60℃	
	Storage Temperature	-20℃~+70℃	
	Shock Resistance	GB/T2423	
	Protection Rating	IP68	
PHYSICAL	Materials	Aluminum alloy shell	
	Dimensions	172x 148 x 58mm	
	Weight	≤1.92kg	
ACCESSORIES	NET660	1 Unit	
	Power adapter	1 PCS	
	Serial Port	2 PCS	
	WIFI Antenna	1 PCS	
	4G Antenna	1 PCS	

▲ 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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