



NET20 PLUS

Introduction of iCORS system

The iCORS Ground-based Augmentation System (GBAS) is designed for high-precision positioning and precise timing of Beidou. The system consists of a CORS subsystem, a communication subsystem, a data center and a user subsystem, providing high-precision positioning and timing services for the area, providing precise position and time services for surveying, GIS meteorology, earthquake, and smart cities.

Self-developed core technology

The core software and hardware of the iCORS system supports secondary development, which can be personalized development according to the needs of users.

High security

Based on the security design of the underlying code, the system security is guaranteed to the greatest extent. The system supports encryption parameter, online data conversion and other functions to ensure the security of measurement data.

High reliability

Highly reliable system components to ensure long-term operation of the system

Strong compatibility

The system is compatible with, GPS, GLONASS, BDS, satellite systems, and reserves GALILEO, QZSS system upgrade. The differential data supports multiple data formats such as rtm2.x / 3.x and CMR, and is compatible with access of mainstream terminal equipment at home and abroad.

iCORS- GBAS-GNSS Receiver

- High resolution LCD screen
Equipped with a large high-resolution 256*64 OLED display, real-time display of current engineering information and satellite status, convenient and fast.
- Rugged and reliable industrial quality
All-metal body, the interface uses lemo connector, equipped with more data interfaces to ensure extended functions.
- High speed and reliable network performance
Equipped with Ethernet port and direct interconnection network, users can upgrade and manage products remotely over the network.



Product Specification

GNSS Performance		Power Supply	
Channel	336	Power Input	9-28V
Satellite Tracked	GPS: L1 CA/L2E/L2C/L5 GLONASS:L1CA/L2CA/L3 CDMA BeiDou:B1/B2/B3 Galileo:E1/E5A/E5B/E5AltBOC/E6 NAVIC: L5 SBAS: L1 CA/L5 QZSS: L1CAL1SAIF/ L1C/ L2C/ L5	Power Consumption	2.8W
Static Accuracy	Horizon: 2.5mm+1ppm RMS Vertical: 5mm+1ppm RMS	Built-in Battery	12000mAh
RTK Accuracy	Horizon: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS	Physical	
SBAS Accuracy	Horizon: 0.5m RMS	Dimensions	222mm*164mm*79mm
Code Differential Accuracy	Horizon: 0.25m RMS	Weight	1.93kg
Communication		Data Transmission	
Operating System	Linux	Data Interface	2RS232, 1PPS, GNSS antenna interface, RJ45 (network interface), EVENT, OSC, USB
Processor	TI335X		Support TCP/IP, Server/Client mode, Ntrip, HTTP, FTP service, Binex
Internal Memory	Up to 32GB		To manage the status and settings, Support Navigation data
Wireless	Bluetooth, WiFi		and differential data transmission
Network	HSPA+3.75G Network transmission	Navigation Output	NMEA0183, PJT, PJK, BPQ, binary output
		Update Rate	Max 50Hz
		Correction Format	CMR, CMR+, RTCM2.X, RTCM3.X
		Data Storage Format	dat, Rinex, Binex
		Environment	
		Operating Temperature	-30℃ ~ +65℃
		Storage Temperature	-40℃ ~ +70℃
		Humidity	90%, condensing
		Water& Dust Proof	IP67



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