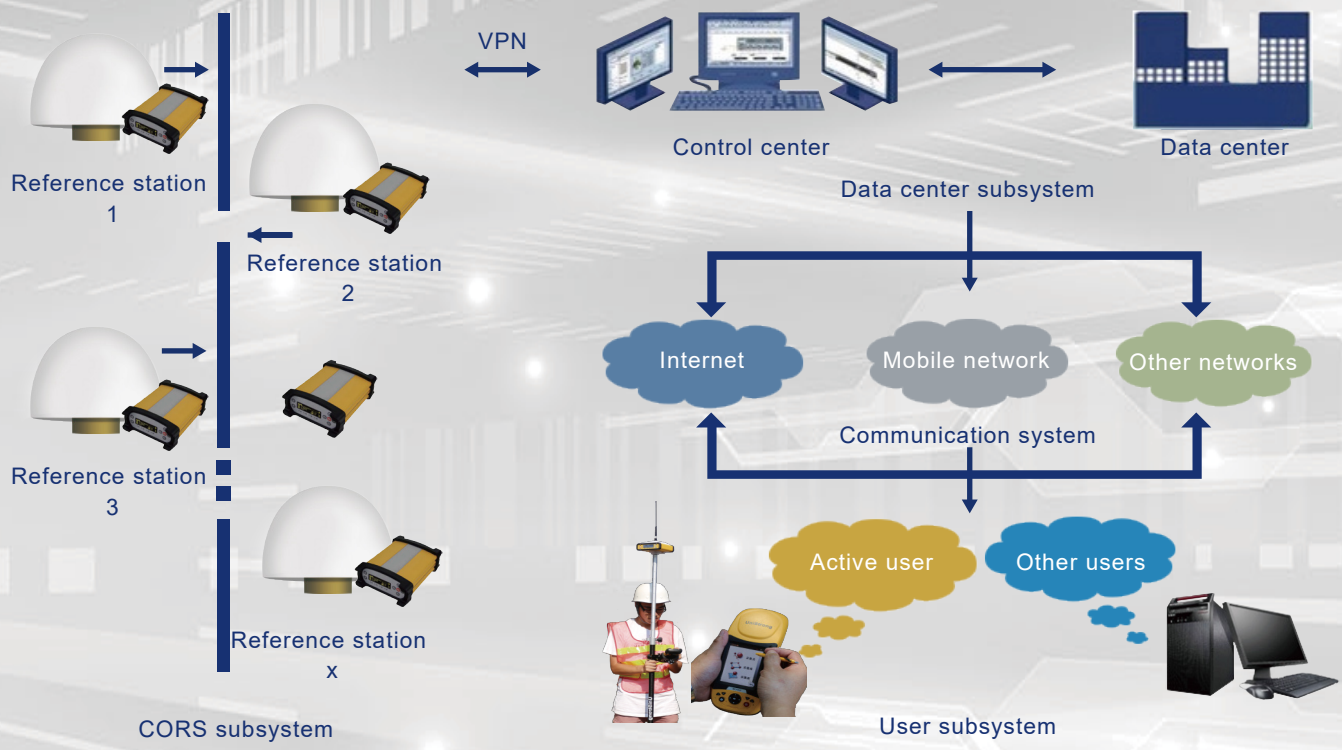
e-survey



NET20 PLUS

Introduction of iCORS system

The iCORS Ground-based Augmentation System (GBAS) is designed for high-precision positioning and precise timing. 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 an area, providing precise position and time services for surveying, GIS meteorology, earthquakes, and smart cities.

Self-developed core technology

The core software and hardware of the iCORS system supports secondary development, which can be personalized 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 parameters, 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 rtcm2.x / 3.x and CMR, and is compatible with access to 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 interconnected network, users can upgrade and manage products remotely over the network.

Product Specification

GNSS Performance	
Channel	336
Satellite Tracked	GPS: L1CA / L2E / L2C / L5
	GLONASS: L1CA / L2CA / L3 CDMA
	BeiDou: B1 / B2 / B3
	Galileo: E1 / E5A / E5B / E5AltBOC / E6
	NAVIC: L5
	SBAS: L1CA / L5
	QZSS: L1CA / L1SAIF / L1C / L2C / L5
Static Accuracy	Horizon：2.5mm+1ppm RMS
	Vertical：5mm+1ppm RMS
RTK Accuracy	Horizon：8mm+1ppm RMS
	Vertical：15mm+1ppm RMS
SBAS Accuracy	Horizon：0.5m RMS
Code Differential Accuracy	Horizon：0.25m RMS

Communication	
Operating System	Linux
Processor	TI335X
Internal Memory	Up to 32GB
Wireless	Bluetooth, WiFi
Network	HSPA+3.75G Network transmission

Power Supply	
Power Input	9-28V
Power Consumption	2.8W
Built-in Battery	12000mAh

Physical	
Dimensions	222mm*164mm*79mm
Weight	1.93kg

Data Transmission	
Data Interface	2RS232, 1PPS, GNSS antenna interface,
	RJ45 (network interface), EVENT, OSC, USB
	Support TCP/IP, Server/Client mode,
	Ntrip, HTTP, FTP service, Binex
	To manage the status and settings,
	Support Navigation data
	and differential data 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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