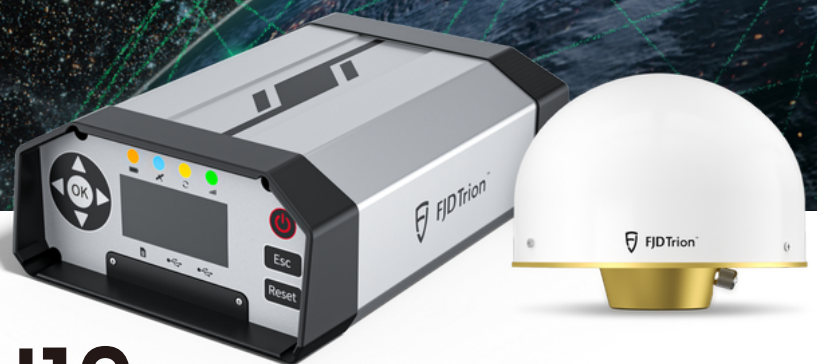


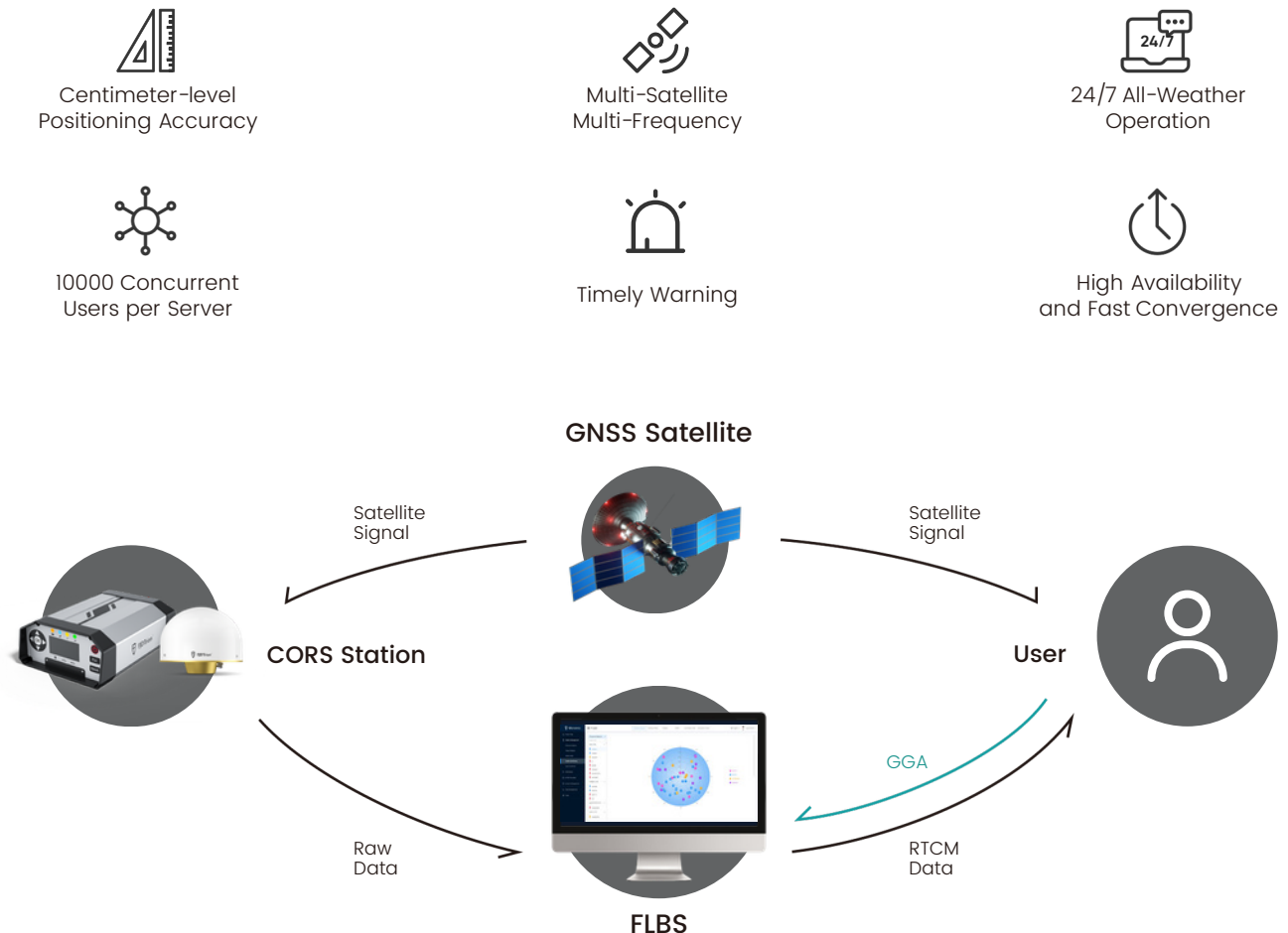


FJD TRION N10

CORS SYSTEM

FJD TRION N10 CORS SYSTEM

FJD Trion N10 CORS System provides 24/7 high-precision RTK correction services. Featuring the N10 GNSS reference receiver, it supports five major GNSS constellations with strong anti-interference performance. A built-in battery ensures uninterrupted operation, while the FLBS platform streamlines base station and NTRIP account management. The system provides reliable centimeter-level positioning solutions for surveying, precision agriculture, and robotic lawn mowing.



HIGH-PRECISION RECEIVER, BUILT TO LAST N10 GNSS REFERENCE RECEIVER

Multi-System High-Precision Positioning

Supports major GNSS constellations and 16 frequency bands, with multiple coordinate systems for precise positioning worldwide.

Durable Design, Stable Performance

IP67 protection, a built-in firewall, and backup power ensure reliable 24/7 operation in demanding environments.

Smart Operation & Data Sharing

Supports 30-day data storage, FTP data transmission, remote N2N configuration, and OTA updates for efficient data sharing and remote maintenance.

Simultaneous Broadcasting via Internet & Radio

Simultaneously broadcasts RTK corrections via internet and radio for wider coverage and uninterrupted positioning.



RELIABLE SIGNAL STARTS HERE

CGX611A 3D CHOKE RING ANTENNA

Global Frequency & Constellation Coverage

Receive all major GNSS frequencies for maximum precision.

Designed to Reject Interference

Minimize multipath interference and signal reflections.

Built-In Precision

Offer ± 1 mm phase-center offset, an MTBF over 30,000 hours, and rugged IP67 protection for consistent field deployment.



SMART SIGNAL MANAGEMENT

FLBS PLATFORM

Streamlined CORS Station Oversight

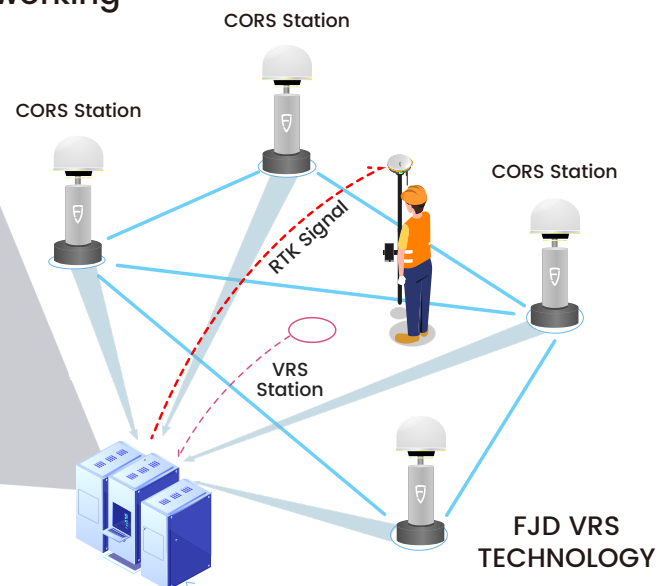
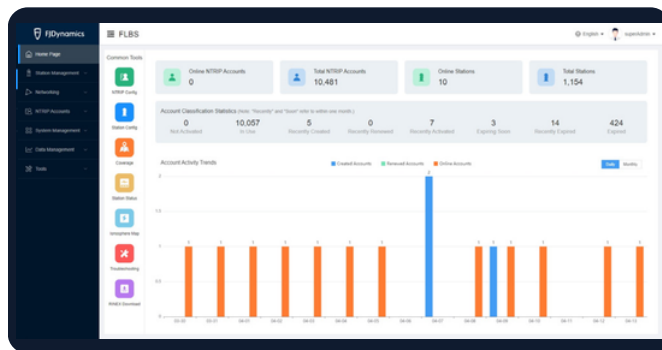
View, monitor, and manage all your stations remotely with real-time status feedback and alerts.

User and Account Management Made Simple

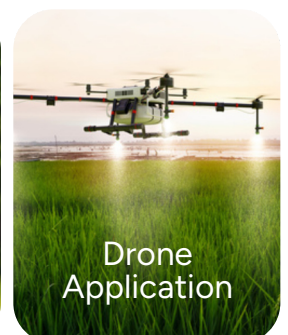
Create and administer Ntrip accounts and view live connection status.

Multi-Platform Compatibility and VRS Networking

Compatible with multi-brand GNSS receiver and terminal, VRS technology supported as well.



APPLICATION



N10 GNSS Reference Receiver

Positioning

Channels	1408
Frequencies	BDS: B1I, B3I, B1C, B2a, B2b GPS: L1C/A, L2C/L2P, L5 GLO: G1, G2 GAL: E1, E5a, E5b QZSS: L1C/A, L2C, L5, L1S, L1C/B
Single point (RMS)	Horizontal: 1.5 m Vertical: 2.5 m
RTK (RMS)	Horizontal: 0.8 cm + 1 ppm Vertical: 1.5 cm + 1 ppm
Static differential (RMS)	Horizontal: 2.5 mm + 1 ppm Vertical: 5.0 mm + 1 ppm
Protocols	NMEA-0183, RTCM 2.x/3.x
Update rate	Up to 5 Hz
GNSS antenna	Choke ring antenna

4G network

4G module	Universal
Coverage	Global (except the Antarctic and Arctic regions)
SIM card slot	Micro SIM

Ethernet

Ethernet transceiver	Transmission speed: 10/100 Mbps Initial IP address: 192.168.1.6
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Wi-Fi network

Wi-Fi hotspot	For configuring the receiver
Wi-Fi hotspot properties	Name: FJN10SN Initial password: 123456789 Initial IP address: 192.168.200.1
Wi-Fi client	For receiver networking (connect to a 2.4 GHz Wi-Fi network using DHCP)

CGX611A 3D Choke Ring Antenna

Antenna

Frequencies	BDS: B1I, B3I, B1C, B2a, B2b GPS: L1C/A, L2C/L2P, L5 GLO: G1, G2 GAL: E1, E5a, E5b QZSS: L1C/A, L2C, L5, L1S, L1C/B
Impedance	50 Ω
Polarization	Right-handed circular polarization
Antenna axial ratio	≤ 3 dB
Horizontal coverage	360°
Output VSWR	≤ 2.0
Peak gain	6.5 dBi
Phase center error	± 1 mm

Structure

Size	$\Phi 185 \times 148$ mm
Weight	≤ 1.8 kg

FLBS Platform

Coverage

Within network	Full coverage
Outside network	Up to 30 km
Reference station spacing	30~120 km

Positioning accuracy (RMS)

Network RTK	Horizontal: ≤ 2 cm Vertical: ≤ 5 cm
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Compatibility

Satellite signals	BDS: B1I, B3I, B1C, B2a, B2b GPS: L1C/A, L2C/L2P, L5 GLO: G1, G2 GAL: E1, E5a, E5b QZSS: L1C/A, L2C, L5, L1S, L1C/B
Correction data formats	RTCM 2.3, RTCM 3.0, RTCM 3.2 MSM4, RTCM 3.2 MSM5, CMR, CMR+
Broadcast rate	1 s
Reference station	Supports all NTRIP 1.0-compliant GNSS base stations
Rover	Supports all NTRIP 1.0-compliant GNSS rovers
Data storage format	RTCM 2.x/3.x, RINEX 3.04

I/O

USB port (USB)	Max. transmission speed: 480 Mb/s Connector type: Type-C (USB2.0) Usage: for connecting to an external storage or updating firmware
LEMO connector (LEMO)	2-pin, applicable power supply: DC 9 V~36 V Recommended power supply: DC 12 V
Aviation connector (RJ45)	Ethernet port
RS232 connector (COM1)	DB9 connector
RS232 connector (COM2)	7-pin LEMO
GNSS antenna (GNSS)	TNC connector
4G antenna (4G)	SMA connector
PPS output (PPS)	SMA connector
External event input (EVENT)	SMA connector
External frequency standard input (CLK)	SMA connector, reserved

Power supply

Input voltage	DC 9 V~36 V AC 90 V~260 V
Over-voltage protection	Threshold: DC 38 V
Protection against reverse connection	Supported
Powering method	Lithium battery of 22,000 mAh (under standard conditions) External DC power supply via LEMO connector
Battery life	> 24 h
Restart	Remote restart supported

Physical and environmental

Power consumption	5 W (standard)
Dimensions	L×W×H: 220.7×152.1×81.7 mm
Weight	2.08 kg
IP rating	IP67
Operating temperature	-40°C to 65°C
Storage temperature	-40°C to 80°C

Low noise amplifier

Gain	50±2 dB
Noise figure	≤ 2 dB
Output VSWR	≤ 2.0
In-band flatness	± 2 dB
Operating voltage	DC 3.3 V~12 V
Operating current	≤ 60 mA
Differential transmission delay	≤ 5 ns

Environment

Operating temperature	-40°C to 85°C
Storage temperature	-55°C to 85°C
Humidity	95% non-condensing

Connector	TNC female
Installation	5/8"×11 threaded

Service modes

Operation modes	Physical reference station Virtual reference station (Gird VRS)
Station types	Assigned station Nearest station

Stability

Availability	99.9% (365 days/year) 24/7 continuous operation
Email alerts	Reference station offline NTRIP account status changes Ionospheric activity
Phone alerts	Service operation anomalies

Capacity

End Devices	Based on a distributed cloud architecture, supporting hundreds of thousands of concurrent device connections
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Internationalization

Languages supported	Simplified Chinese, English, French, Spanish, German, Hungarian, Turkish, Italian, Ukrainian, Japanese, Korean
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