Size: ϕ205mm × 126.5mm
Weight: ≤1.5 kg

A300L
GNSS Receiver

DESIGNED FOR CORS APPLICATIONS

Powered by the K8 platform, the A300L GNSS receiver delivers millimeter-level positioning accuracy for CORS applications. It tracks 1590 channels across all current and planned GNSS constellations, including GPS, GLONASS, BeiDou, Galileo, and QZSS. The A300L provides a robust, future-ready foundation for CORS networks, ensuring long-term performance and compatibility.

Features

- Support GPS, GLONASS, BeiDou, BeiDou Global, Galileo, QZSS and SBAS
- Support remote monitoring & management
- Support 4G/Bluetooth for flexible communication
- Easy Configuration via Survey Master
- Large 8G memory for loop recording
- IP68, anti-vibration and anti-lightning for harsh environments
- Low power consumption
- 24/7 Operation – MTBF ≥ 50,000 hours

POWERFUL REMOTE CONTROL

Featuring 4G communications, A300L receiver can easily realize device management, system upgrade, status monitoring and other configurations through remote control. Users can view positioning data and warning information anywhere and anytime via a PC or mobile phone.

RELIABLE & DURABLE FOR LONG-TIME OPERATION

Through strict quality control procedures, the MTBF of the A300L receiver can reach more than 50,000 hours. The low-power design makes the A300L more durable due to less heat generation of the electronic components, providing you with a long-term trouble-free operation CORS solution.

SinoGNSS

A300L
GNSS Receiver

A Series GNSS Receiver | Ver.2026.3.17

Signal Tracking	
Channel	1590
GPS	L1C/A, L1C, L2P, L2C, L5
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GLONASS	L1, L2, L3
Galileo	E1, E5a, E5b, E6c, E5 AltBOC
QZSS	L1C/A, L2C, L5, L1C
IRNSS	L5
SBAS	L1C/A

Positioning Specifications	
Post Processing	Horizontal 2 mm + 0.5 ppm Vertical 4 mm + 0.5 ppm
Single Baseline RTK	Horizontal 8 mm + 1 ppm Vertical 15 mm + 1 ppm
Network RTK	Horizontal 8 mm + 0.5 ppm Vertical 15 mm + 0.5 ppm
DGPS	＜0.4m RMS
Standalone	1m 3D RMS
SBAS	Horizontal 0.5 RMS Vertical 0.8 RMS

Interfaces	
1 14-pin Lemo Port	Serial port, USB port, Power
1 SIM Card Slot	4G Global

Communication	
Serial Port	RS232, RS485[1]
USB	USB 2.0
Bluetooth	4.1/2.1+EDR 2.4GHz
4G Modem	- LTE-FDD: B1/B2/B3/B4/B5/B7/B8 /B12/B13/B18/B19/B20/B25/B26/B28 - LTE-TDD: B38/B39/B40/B41 - WCDMA: B1/B2/B4/B5/B6/B8/B19 - GSM: B2/B3/B5/B8
Indicator LED	4 LEDs, indicating power, satellite searching, correction data and GSM status

Data Format	
Correction Data I/O	RTCM2.X, 3.X,CMR(GPS Only)
Position Data Output	NMEA-0183,ComNav Binary, RTCM2.X, RTCM3.X
Data Uplate Rate	60s, 30s, 15s, 10s, 5s, 1Hz, 2Hz, 5Hz, 10Hz

Physical	
Size(L x W x H)	ϕ205mm × 126.5mm
Weight	≤1.5 kg

Environmental	
Working Temperature	-40°C to +70°C(-40°F to 158°F)
Storage Temperature	-55°C to +85°C(-67°F to 185°F)
Humidity	100% Non-condensing
Waterproof and Dustproof	IP68
MTBF	≥50000h

Electrical	
Input Voltage	9-36VDC, overvoltage protection
Power Consumption	≤2W

Software
SinoGNSS CDC+ software
SinoGNSS CDC.NET sotware

Remarks
1. RS485 is reserved for future update

SinoGNSS

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