

58 mm



127 mm

Size: $\phi 205\text{mm} \times 126.5\text{mm}$

Weight: $\leq 1.5\text{ kg}$

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 $\geq 50,000$ 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 Update 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	-30°C to +60°C
Storage Temperature	-30°C to +60°C
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 software

Remarks

1. RS485 is reserved for future update

SinoGNSS

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