

S200

GNSS RECEIVER

Centimeter-Level Smart Antenna, For your vehicle navigation



CENTIMETER NAVIGATION

With 1408 channels GNSS engine, S200 is capable of tracking GPS, BDS, GLONASS, Galileo and QZSS and delivers stable & accurate positioning in complex environments. Integrated with high-precision gyroscope for vehicle orientation, S200 provides users with centimeter-level accuracy for vehicle navigation.

ALL-IN-ONE DESIGN

The S200 GNSS receiver has integrated GNSS antenna, GNSS module, gyroscope, 4G and radio together, the high integration largely reduces system components of your vehicle system and improves the compatibility on different vehicles, which is suitable for precision agriculture, construction machinery, and other vehicle applications.

FLEXIBLE COMMUNICATION

To increase flexibility in configuration and transmission, S200 is equipped with Bluetooth[®]/UHF[®]/4G/RS232/CAN for communication. RTK correction data can be transmitted by 4G, or radio in some areas without network coverage. The S200 can also be connected to the display control terminal for easy onsite configuration.

SATELLITES TRACKING

Channels	1408
BDS	B1I, B2I, B3I
GPS	L1C/A, L2P, L2C, L5
GLONASS	G1, G2
Galileo	E1, E5a, E5b
QZSS	L1, L2, L5
Cold start	<30s
Initialization time	<5s (typical)
Initialization reliability	>99.9%

ACCURACY

Standalone	1.5m Horizontally 2.5m Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
Velocity	0.03m/s
Accelerometer range	±8g
Data update rate	1 ~ 100Hz

DATA FORMAT

Data output format	NMEA-0183, binary
Data output rate	1 ~ 20Hz selectable
INS Data update rate	1 ~ 100Hz selectable
Correction data format	RTCM3.0/3.2, CMR, CMR+

ELECTRICAL

Power consumption	≤4W
Power supply voltage	9 ~ 36V DC

COMMUNICATION

Baud rate	9600 ~ 921600
4G	Support
UHF ¹	Support
Bluetooth ¹	BT4.0, backward compatible with BT2.x, the protocol supports Windows/Android/iOS system
Indicator	3 LEDs indicating power, correction data and satellite tracking
Connector	- 1 integrated interface, including 1 power supply, 1 RS232, 2 CAN - 1 GNSS antenna connector - 1 UHF connector

PHYSICAL

Size	181.4mm×181.1mm×70mm
Weight	1.05Kg

ENVIRONMENTAL

Working temperature	-45℃ ~ +75℃
Storage temperature	-55℃ ~ +85℃
Humidity	100% non-condensing
Waterproof & dustproof	IP67
Drop	Survive from 2m-drop

1. The UHF and Bluetooth of S200 are optional.

All specifications are subject to change without notice.