

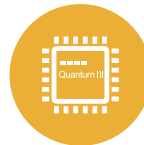


A200

Dual Antenna Heading Receiver



Highly integrated and compact positioning and heading solution, easy to install



Built-in new generation K8 positioning and heading module



IP67 waterproof and dustproof, suitable for various harsh environments



Aluminum-magnesium alloy housing is rugged and durable



Equipped with the latest IMU, A200 can ensure the output of heading in case of signal loss

A200

Developed independently by ComNav Technology Ltd., A200 is an advanced generation high-precision integrated GNSS positioning and heading receiver. With full constellation tracking capability, it provides high-precision positioning and heading data. The built-in datalink has low power consumption and long working range. Featuring its compact design and light weight, the A200 is easy to install. The A200 GNSS receiver can be widely used in precision agriculture, machine control, fleet management, robot and other industries.

Positioning

Channels	1226
GPS	L1C/A, L2C, L2P
BDS	B1I, B2I, B1C, B2b
GLONASS	G1, G2
Galileo	E1, E5b
QZSS	L1C/A, L2C
SBAS	L1C/A

Heading

GPS	L1C/A, L2C, L2P
BDS	B1I, B2I, B1C, B2b
GLONASS	G1, G2
Galileo	E1, E5b
QZSS	L1C/A, L2C

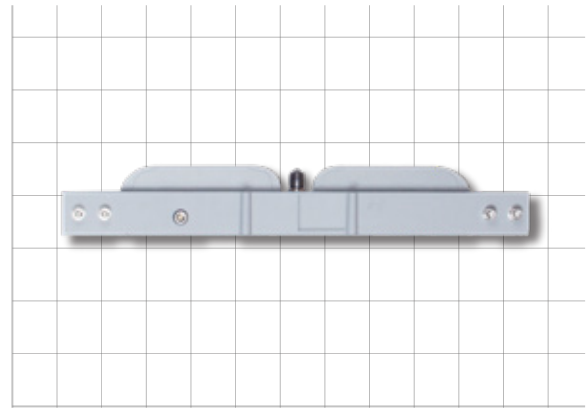
Specifications

Post Processing	2.5 mm + 1 ppm Horizontal 5 mm +1 ppm Vertical
Single Baseline RTK	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS
Velocity accuracy	≤ 0.02 m/s (PDOP ≤ 4)
Heading Accuracy	$(0.15/R^1)^\circ$
Roll or Pitch Accuracy	$(0.25/R^1)^\circ$
Signal acquisition time	Cold start <30s
RTK initialization time	<10s
RTK initialization reliability	>99.99%
Signal Reacquisition	<1s

Physical performance:

Dimensions	460mm × 38mm × 58mm
Weight	627g
Housing material	Aluminum-magnesium alloy

38 mm



460 mm

Dimension: 460mm × 38mm × 58mm

Weight: 627g

Data Processing

Positioning data output rate	1Hz, 2Hz, 5Hz, 10Hz, 20Hz
Correction data I/O	RTCM2.x, RTCM3.x, CMR (GPS only), CMR+ (GPS only)
Positioning data output	-ASCII: NMEA-0183 GGA, GSA, GSV, RMC, HDT, VHD, ZDA, VTG, GST, GLL; PTNL, PJK; PTNL, AVR; PTNL, GGK -ComNav Binary -BINEX Data: 0x00, 0x01-01, 0x01-02, 0x01-05, 0x7d-00, 0x7e-00, 0x7f-05

Communication

Datalink	Tx/Rx with full frequency range from 410-470 MHz - Transmit power: 0.5-2 W adjustable - Baud rates: 19.2kbps, 9.6kbps - transmission protocol: transparent transmission, TT450S/ SOUTH/MAC (Super-long range module is optional)
----------	---

Electrical specifications

Power supply	DC 4.5~12V
Supports	Auto power-on
Power consumption	2.6W (typical value)
Communication interfaces	1 serial port and 1 USB port (7-pin Lemo connector)

Environmental characteristics

Dustproof and waterproof	IP67
Shock	Survive a 2 m drop onto concrete
Humidity	100% fully sealed, anti-condensation
Operating temperature	-30 °C to +65 °C
Storage temperature	-30 °C to +65 °C

¹: R is baseline length in meter
Specifications subject to change without notice.