

High Performance RTK GNSS Receiver

PozStar S5



Made in Korea



- 1408 Channels
- Latest GNSS Module
- In-house GNSS main board
- Fast and precise fix
- Compact & durable design
- IMU tilt sensor survey
- In-house field software
- Light weight

Performance

Channels	1408 channels
GPS	L1 C/A, L1C, L2P(Y), L2C, L5
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GLONASS	G1, G2, G3
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5
SBAS	WAAS, GAGAN, MSAS, EGNOS, SDCM, BDS
NavIC	L5

GNSS Accuracy

Cold start	< 12 seconds
Warm start	< 4 seconds
RTK signal initialization	> 99.9 %
Update rate	20 Hz
Static and fast static	- H: 3 mm + 0.5 ppm (RMS) - V: 5 mm + 0.5 ppm (RMS)
RTK	- H: 0.8 cm + 1 ppm (RMS) - V: 1.5 cm + 1 ppm (RMS)
Standard point positioning	- H: 1.5 m (RMS) - V: 2.5 m (RMS)
Code differential	- H: 0.25 m (RMS) - V: 0.5 m (RMS)
SBAS	- H: 0.3 m (RMS) - V: 0.6 m (RMS)
Correction data	RTCM V3.X, RTCM2

Power supply

Power consumption	2.2 W (depending on user settings)
Li-ion battery capacity	Built - in - rechargeable 6700mAh Samsung cell
Operating time	RTK Rover: 12 h Static: 18 h
External power	5 V / 3 A

Hardware

Size	133 x 133 x 89.2 mm
Weight	793 g
Speaker	1 W (multilingual support)
Environment	Operating: -40 °C to +65 °C (-40 °F to +149°F) Storage: -40 °C to +85 °C (-40 °F to +185 °F)
Humidity	100 %
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth 1m
Shock	2-meter drop
Tilt sensor	MEMS IMU load compensation Immune to magnetic disturbance
Front panel	4 LEDs

Communication and Data Recording

Wi-Fi	802.11 b/g/n, access point mode
Bluetooth ®	LE V4.1
Ports	1 x USB Type-C port (data download, charging, firmware update) 1 x UHF antenna port
UHF Radio(Optional)	Frequency: 410-470MHz Output power: 0.5W / 1W Operation range: 3~5 km Protocol: TRIMTALK, TRIMMK3, TRANSEOT, DTSCOMM Link rate: 4800 bps - 19200 bps
Data formats	RTCM 2.x, RTCM 3.x input and output NMEA 0183 output RINEX static formats NTRIP client (on PDA network)
Data storage	8GB SAMSUNG High-speed memory

Service and R&D Centre

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