

S7G GNSS Receiver

GNSS handheld
receiver for modern
positioning technology



S7G TECHNICAL FEATURES

RECEIVER

Satellite Tracked	GPS: L1, L2, L2C GLONASS: L1, L2 BEIDOU: B1, B2 SBAS: L1
Channels	120
Position Rate	5 Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %

POSITIONING¹

HIGH PRECISION STATIC SURVEYING

Horizontal	5 mm + 1 ppm RMS
Vertical	10 mm + 1 ppm RMS

CODE DIFFERENTIAL POSITIONING

Horizontal	0.4 m RMS
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SBAS POSITIONING²

Horizontal	0.60 m RMS
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REAL TIME KINEMATIC³ - EXTERNAL ANTENNA

Fixed RTK Horizontal	10 mm + 1 ppm RMS
Fixed RTK Vertical	20 mm + 1.5 ppm RMS

REAL TIME KINEMATIC³ - INTERNAL ANTENNA

Fixed RTK Horizontal	20 mm + 1 ppm RMS
Fixed RTK Vertical	30 mm + 2 ppm RMS

INTEGRATED GNSS ANTENNA

High accuracy four constellation antenna with internal multipath suppressive board

HARDWARE

Processor	Cortex-A8-AM33X 1 GHz
RAM	512 MB
Flash Memory	32 GB
External Storage	8 GB included
Operation System	Windows Mobile 6.5 Professional
E-Compass	Yes
Display	TFT colors, LED backlight
Resolution and Size	640 × 480 - 3.7"
Camera	AF 5MP
Image Format	JPG (2048×1536)
Video Mode	QVGA Resolution - WMV

Illustrations, descriptions and technical specifications are not binding and may change

1. Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions.
2. Depends on SBAS system performance.
3. Network RTK precision depends on the network performances and are referenced to the closest.



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INTERNAL MODEM

Band	GSM/GPRS/EDGE: 850/900/1800/1900 MHz WCDMA/HSDPA: 800/850/900/1900/2100 MHz
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COMMUNICATION

I/O Connectors	Multifunction cable with USB interface for PC connection Connector for external antenna
Bluetooth	2.1+EDR
Wi-Fi	802.11 b/g
Reference outputs	RTCM 2.1, 2.3, 3.0, 3.1 CMR, CMR+, RTCA

POWER SUPPLY

Battery	Rechargeable and replaceable 11.1 V - 2500 mAh Intelligent lithium battery
Working Time	Up to 8 hours
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	234 mm x 99 mm x 56 mm
Weight	895 gr (with battery)
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Waterproof/Dustproof	IP65
Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage

STANDARD ACCESSORIES

Soft Bag, Charger Adapter, USB Cable, Rear Hand-strap, Battery, Stylus Pen with String, Screen Protector

OPTIONAL ACCESSORIES

Carbon fiber pole, Telescopic pole, Backpack kit for external antenna, External antenna L1/L2, External antenna cable (1.6 m, 2 m, 5 m), Holder for pole, Carrying case

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