

Technical features S7 - G
System Abstract

Sunlight-readable 3.7" Polarized Screen
Built-in GSM Mobile Station Modem
Built-in Wi-Fi and Bluetooth Wireless Technology
5 Megapixel Autofocus Camera,
Windows Mobile 6.5 Pro
Strong and waterproof design

Size and Weight

Size	234x99x56mm (L*W*D)
Weight	925g (battery included)

GNSS

Receiver	Novatel OEM615 chipset
Channels	120 Channels ¹
System	GPS (L1 C/A, L1, L2, L2C) GLONASS (L1 C/A, L1, L2) GALILEO (E1 test) COMPASS ² , SBAS
Update Rate	1Hz ³
Initialization time	< 10s
Time to First Fix	< 50s (Cold Start) ⁴ < 35s (Hot Start) ⁵
NMEA 0183 Support	Optional
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA

GNSS Accuracy⁶

Positioning Accuracy (int. antenna)	Decimeter
Positioning Accuracy (ext. antenna)	Centimeter
Autonomous	1.2m (RMS)
SBAS ⁷	0.6m (RMS)
DGPS	0.4m (RMS)
RTK (horizontal)	1cm+1ppm (RMS)
RTK (vertical)	2cm+1ppm (RMS)

Environment

Humidity	5%~95% RH (non-condensing)
Operating Temperature	-20°C to+60°C
Storage Temperature	-30°C to+70°C
Waterproof/Dustproof	IP65

Battery

Battery	Rechargeable Lithium battery
Battery Capacity	11.1Vx2500mAh
Working Hours	8hours (normal use)

Mechanical Shock

Drop Test	1.5m up the cement of plywood
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Camera

Static Mode	AF 5MP
Static Image Format	JPG(2048x1536)
Video Mode	Reach QVGA Resolution
Video File Format	WMV

Screen

Model	TFT colored LCD and touch screen
Resolution	640x480
Size	3.7" (diagonal)

Cellular Mobile and Wireless System

GPRS	850/900/1800/1900MHz
Wi-Fi	802 11b/g
Bluetooth	version: 2.1+EDR

Interface and Input

Integrated Speaker and Microphone
Soft Keyboard Numbers and Characters Input, SIM Socket
External Power Supply Connector, SDHC card socket

Buttons and Control

Navigation Button, Power Button, Confirm Button
F1-F4 (customized function buttons) Windows Button

Data Communication

Voice Call and MMS, Mini Waterproof USB Connector, 802.11b/g Wireless LAN, Built-in GPRS/GSM Communication Module, CDGE Support, Standard Bluetooth, Voice Call and MMS

Hardware

Processor	Marvell PXA-310 806MHz Xscale CPU
RAM	256MB
Flash Memory	256MB
External Storage	SDHC (can reach 16GB)
Operation System	Windows Mobile 6.5

Input/Output

NMEA 0183 Support	Optional
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA

Standard Accessories

STONEX S7-G Handheld, Package-Bag, Adapter, USB Cable
Rear Hand-strap, Stylus Pen with String
Battery, CD and Manual, Screen Protector

Optional Accessories

Adapter for Car, Retractable Pole Set
Backpack Kit for External Antenna
External antenna GPS, GLONASS, L1-L2
External antenna Cable (2m or 5m)
Bracket, Carrying Case

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¹ Tracks up to 60 L1/L2 satellites.

² Compass Phase 3 compatibility.

³ Standard configuration for handheld use..

⁴ No almanac or ephemerides and no approximate position or time

⁵ Almanac and recent ephemerides saved and approximate position and time entered.

⁶ Performance specifications subject to GPS system characteristics, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources

⁷ GPS only