

Technical features S7 - D

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	234×99×56mm (L*W*D)
Weight	925g (battery included)
GNSS	
Receiver	Novatel OEMStar chipset
Channels	14 Channels
System	GNSS (L1 C/A, L1) GLONASS (L1 C/A, L1)
Update Rate	1Hz ¹
Initialization time	< 65s (Cold Start ²)
Time to First Fix	< 35s (Hot Start ³)
NMEA 0183 Support	Optional
RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA
GNSS Accuracy ⁴	
Positioning Accuracy (int. antenna)	Sub-meter
Autonomous	1.5m (RMS)
SBAS ⁵	0.7m (RMS)
DGPS	0.5m (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	11.1V×2500mAh
Working Hours	8hours (normal use)
Mechanical Shock	
Drop Test	1.5m up the cement of plywood
Camera	
Static Mode	AF 5MP
Static Image Format	JPG(2048×1536)
Video Mode	Reach QVGA Resolution
Video File Format	WMV

Screen	
Model	TFT colored LCD and touch screen
Resolution	640×480
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	
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 Standard configuration for handheld use.

² No almanac or ephemerides and no approximate position or time.

³ Almanac and recent ephemerides saved and approximate position and time entered.

⁴ 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.

⁵ GPS only. Clock aligned to GPS system time.