

## **Technical features S7 S/D/G series**

System Abstract		Mechanical Shock	Mechanical Shock		
Sunlight-readable 3.7" Polarized TouchScreen		Drop Test	1.5m on concrete		
Built-in GSM Mobile Station Modem		Interface and Input	Interface and Input		
Wi-Fi and Bluetooth Wireless Technology		Integrated Speaker and	Integrated Speaker and Microphone		
5 Megapixel Autofocus Camera, Windows Mobile 6.5 Pro		Soft Keyboard Numbers	Soft Keyboard Numbers and Characters Input, SIM Socket		
Battery (Rechargeable Lithium)		External Power Supply C	External Power Supply Connector, SDHC card socket		
Battery Capacity	11.1V × 2500mAh	Buttons and Control	Buttons and Control		
Working Hours	8 hours (normal use)	Navigation Button, Pow	Navigation Button, Power Button, Confirm Button		
Size and Weight		F1 - F4 (customized fund	F1 - F4 (customized function buttons), Windows Button		
Size	234 × 99 × 56 mm (L*W*D)	Data Communication	Data Communication		
Weight	S7 G: 895g (battery included)	Voice Call and MMS, Mi	Voice Call and MMS, Mini Waterproof USB Connector		
	S7 S/D: 850g (battery included)	802.11b/g Wireless LAN	802.11b/g Wireless LAN, Built-in GPRS/GSM Comm. module		
Environment		CDGE Support, Standard	CDGE Support, Standard Bluetooth, Voice Call and MMS		
Humidity	5%~95% RH (non-condensing)	Hardware	Hardware		
Operating Temperature	-20°C to +60°C	Processor	Marvell PXA-310 806 MHz Xscale CPU		
Storage Temperature	-30°C to +70°C	RAM and	256MB		
Waterproof/Dustproof	IP65	Flash Memory	256MB		
Camera		External Storage	SDHC 4Gb included (max. 16 GB)		
Static Mode	AF 5MP	Operation System	Windows Mobile 6.5		
Image Format	JPG (2048×1536)	Input/Output			
Video Mode and File Format	QVGA Resolution - WMV	NMEA 0183 Support	Available		
Static Mode	AF 5MP	RTCM/CMR Support	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA		
Screencreen		Standard Accessories	Standard Accessories		
Model	TFT colors, LED backlight	Soft Bag, Charger Adapt	Soft Bag, Charger Adapter, USB Cable, Rear Hand-strap, Battery		
Resolution and Size	640 × 480 - 3.7" (diagonal)	Stylus Pen with String, C	Stylus Pen with String, CD and Manual, Screen Protector, Car adapter		
Cellular Mobile and Wireless System		Optional Accessories	Optional Accessories		
GPRS	850/900/1800/1900MHz	Telescopic pole, Backpa	Telescopic pole, Backpack kit for external antenna		
Wi-Fi	802 11b/g	External antenna (GPS,	External antenna (GPS, GLONASS, L1-L2)		
Bluetooth	Version 2.1 + EDR	External antenna cable	External antenna cable (2m or 5m), Holder for pole, Carrying case		
Serie	S7 S S7 D		\$7 G		

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Receiver	12 Channels <sup>1</sup>	14 Channels	120 Channels
System	GPS (L1 C/A, L1 carrier	GPS (L1 C/A, L1); GLONASS (L1 C/A, L1	GPS (L1 C/A, L1, L2, L2C), GLONASS (L1 C/A,
	phase smoothing), SBAS		L1, L2), GALILEO (E1 test), COMPASS, SBAS
Update Rate	1Hz <sup>2</sup>	1Hz <sup>2</sup>	1Hz <sup>2</sup>
Initialization time	< 15s	< 15s	<10s
Time to First Fix	< 60s (Cold Start) <sup>3</sup>	<60s (Cold Start) <sup>3</sup>	<50s (Cold Start) <sup>3</sup>
	< 35s (Hot Start) <sup>4</sup>	<35s (Hot Start) <sup>4</sup>	<35s (Hot Start) <sup>4</sup>
NMEA 0183 Support	Available	Available	Available
RTCM/CMR Support	RTCM SC-104 v2.x	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA	RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+, RTCA
Accuracy <sup>5</sup>	S7 S - GPS	S7 D - GNSS	S7 G - GNSS
Positioning Accuracy	Sub-meter/decimeter	Sub-meter/decimeter	Centimeter
Accuracy internal antenna	Decimeter	Decimeter	RTK hor: 2cm+1ppm; RTK vert: 3cm+2 ppm
Accuracy external antenna	Decimeter	Decimeter	RTK hor: 1cm+1ppm; RTK vert: 2cm+1.5ppm
Postprocessed	<0.5m + 1ppm	<0.5m + 1ppm	5mm + 1ppm (horizontal)
Autonomous	2.5m (RMS)	1.5m (RMS)	1.2m (RMS)
SBAS	0.6m (RMS)	0.6m (RMS) <sup>6</sup>	0.6m (RMS) <sup>7</sup>
DGPS	0.5m (RMS)	0.5m (RMS)	0.4m (RMS)

Specifications subject to change without notice

<sup>1</sup> Parallel tracking (10-channel when tracking SBAS). <sup>2</sup> Standard configuration for handheld use. <sup>3</sup> No almanac or ephemerides and no approximate position or time. <sup>4</sup> Almanac and recent ephemerides saved, approximate position and time entered. <sup>5</sup> 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. <sup>6</sup> GPS only. Clock aligned to GPS system time. <sup>7</sup> GPS only.



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