

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 ¹ | 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 ² | 1Hz ² | 1Hz ² |
| Initialization time | < 15s | < 15s | <10s |
| Time to First Fix | < 60s (Cold Start) ³ | <60s (Cold Start) ³ | <50s (Cold Start) ³ |
| | < 35s (Hot Start) ⁴ | <35s (Hot Start) ⁴ | <35s (Hot Start) ⁴ |
| 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 ⁵ | 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) ⁶ | 0.6m (RMS) ⁷ |
| DGPS | 0.5m (RMS) | 0.5m (RMS) | 0.4m (RMS) |

Specifications subject to change without notice

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



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