



FORGE

ECHO

The future of unparalleled value and unequivocal precision has arrived; meet the Forge. Featuring a full keyboard, extended life battery, 8-Gigabyte Flash memory, 800 MHz processor, ultra-precision GPS, integrated clinometer, 3G Data Support, Bluetooth and WI-FI capability, and groundbreaking patent-pending echolocation making it easier than ever to measure distance; the Forge packs in everything you'll need and then some, all backed by F4 Tech's two year warranty. Get the Forge, embrace the future.

| Product Comparison | Forge 912 | Forge Echo 912 | Forge 952 | Forge Echo 952 |
|--------------------|------------------------|------------------------|------------------------|------------------------|
| OPERATING SYSTEM | Win Mobile 6.5 Classic | Win Mobile 6.5 Classic | Win Mobile 6.5 Classic | Win Mobile 6.5 Classic |
| DISPLAY SIZE | 3.5" | 3.5" | 3.5" | 3.5" |
| PROCESSOR | 800MHz | 800MHz | 800MHz | 800MHz |
| MEMORY | 512MB SDRAM | 512MB SDRAM | 512MB SDRAM | 512MB SDRAM |
| ON BOARD STORAGE | 8 GB | 8 GB | 8 GB | 8 GB |
| ECHOLOCATION | ✗ | ✓ | ✗ | ✓ |
| HEIGHT MEASUREMENT | ✗ | ✓ | ✗ | ✓ |
| BLUETOOTH | ✓ | ✓ | ✓ | ✓ |
| GPS | ✓ | ✓ | ✓ | ✓ |
| WIFI | ✓ | ✓ | ✓ | ✓ |
| DATA | ✗ | ✗ | ✓ | ✓ |
| CAMERA | 5 MP | 5 MP | 5 MP | 5 MP |
| EXPANSION SLOT | Micro SD (up to 32 GB) | Micro SD (up to 32 GB) | Micro SD (up to 32 GB) | Micro SD (up to 32 GB) |

Electrical Specs.

| | |
|----------------------------------|---|
| <i>PROCESSOR</i> | 800MHz |
| <i>NON VOLATILE MEMORY</i> | FLASH 8 GB |
| <i>VOLATILE MEMORY</i> | SDRAM 512 MB |
| <i>DISPLAY</i> | 3.5" color LCD BLANVieW Transmissive 480 x 640px (VGA) |
| <i>CAMERA</i> | 5MP Auto Focus w/ LED light, Resolution: 1280 x 960, 2048 x 1536, 2592 x 1944 |
| <i>TOUCH PANEL</i> | Analog Resistance type |
| <i>KEYPAD</i> | 30 Keys including 7 soft Function, Alphanumeric, Camera, Power On/Off, Windows |
| <i>VISUAL INDICATOR</i> | Tricolor LED, Software Controlled |
| <i>AUDIBLE BEEPER</i> | 80dBa SPL @ 10cm, 3.5kHz 8-10kHz programmable |
| <i>BLUETOOTH</i> | Bluetooth class II, v2.1 EDR |
| <i>WIFI</i> | IEEE 802.11 b/g 54 Mb/s |
| <i>WWLAN</i> | 3.75G Data Connection, Triple band 850/1900/2100Mhz, Quad band 850/900/1800/1900Mhz |
| <i>EXTERNAL GPS</i> | MMCX |
| <i>MAIN BATTERY</i> | Lithium-ion, 3.7V, 4,000mAh |
| <i>INTERFACE</i> | USB OTG, RS232 |
| <i>FIELD SERVICE FEATURE</i> | E-compass/ G-sensor/ Gyro |

GPS Performance

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|----------------------|--|
| <i>RECEIVER TYPE</i> | 50 Channels GPS L1 Frequency, C/A Code |
| <i>SBAS</i> | WAAS, EGNOS, MSAS, GAGAN |
| <i>TIME TO FIX</i> | |
| <i>COLD START</i> | 29s |
| <i>WARM START</i> | 29s |
| <i>HOT START</i> | <1s |
| <i>ACCURACY</i> | 1-3 Meters (Autonomous) 1-2 Meters (SBAS) < 1 Meter (NTRIP/eGPS) |

Physical Specification

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|-----------------------|---|
| <i>WEIGHT (S852H)</i> | 15.6 oz., 443 grams with battery |
| <i>DIMENSION</i> | 200 mm x 94 mm x 42 mm 7.9 in. x 3.7 in. x 1.7 in. |

Software

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|---|--|
| <i>OPERATING SOFTWARE</i> | Windows 6.5 Classic |
| <i>BLUETOOTH PROFILES SUPPORTED</i> | GAP, SDP, GOEP, DUN, SPP, OPP, A2DP, PAN, HID |
| <i>APPLICATION</i> | Office Mobile, Windows Live Messenger, Windows Live Search Plug-in, Remote Desktop Mobile |
| <i>GPS CONFIGURATION UTILITY</i> | GeoAssist |

Environmental Specs.

| | |
|-------------------------------------|---|
| <i>OPERATING TEMP.</i> | -20° to +60°C (-4° to 140°F) |
| <i>STORAGE TEMP.</i> | -40° to +70°C (-40° to +158°F) (Short term storage) |
| <i>HUMIDITY</i> | The temp was cycled between 30° to 60°C (86 to 140°F) with the relative humidity at 95% constant |
| <i>DUST/FLUID PROTECTION</i> | Per IEC 60529 Ed. 2.1:2001-02 IP65, 8 hours dust, 1 meter for 30 mins. Water |
| <i>VIBRATION</i> | Per MIL-810G Method 514.6 Procedure I & II |
| <i>THERMAL SHOCK RESISTANCE</i> | Per MIL-810G Method 503.5 Procedure I-C, -30°C to 70°C for 4 hr |
| <i>DROP RESISTANCE</i> | Per IEC 68-2-32 Procedure I 4" (1.2m) onto steel surface. |
| <i>TUMBLE RESISTANCE</i> | Per IEC 68-2-32 Procedure 2, 0.5m, randomly 100 times on hard surface with 19mm thickness wood backed by 3mm thickness steel. |

Accessories

- *SPARE BATTERY*
- *SCREEN PROTECTOR*
- *SPARE STYLUS*
- *USB OTG CABLE (OPTIONAL)*
- *CARRYING CASE (OPTIONAL)*
- *BATTERY CRADLE (OPTIONAL)*