



# 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

<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

<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

<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)*