



# FORGE-series

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, 3.75G Data Support, Bluetooth and WI-FI capability; Get the Forge, embrace the future.

Product Comparison	Forge 912 L1/L2	Forge 952 L1/L2
<i>OPERATING SYSTEM</i>	Windows Embedded Handheld 6.5	Windows Embedded Handheld 6.5
<i>DISPLAY SIZE</i>	3.5"	3.5"
<i>PROCESSOR</i>	800MHz	800MHz
<i>MEMORY</i>	512MB SDRAM	512MB SDRAM
<i>ONBOARD STORAGE</i>	8GB	8GB
<i>BLUETOOTH</i>	✓	✓
<i>GPS</i>	✓	✓
<i>TNC EXT. ANTENNA CONN.</i>	✓	✓
<i>CENTIMETER ACCURACY</i>	✓	✓
<i>WIFI</i>	✓	✓
<i>DATA</i>	✗	✓
<i>CAMERA</i>	5MP with Auto Focus	5MP with Auto Focus
<i>EXPANTION SLOT</i>	MicroSD	MicroSD

## Electrical Specification

<i>PROCESSOR</i>	800MHz
<i>NON VOLATILE MEMORY</i>	FLASH 8GB
<i>VOLATILE MEMORY</i>	SDRAM 512MB
<i>DISPLAY</i>	3.5" color LCD BLANView, Transmissive,480 x 640 px (VGA)
<i>CAMERA</i>	5MP with Auto Focus, Resolution: 1280x960, 2048x1536, 2592x1944
<i>TOUCHPANEL</i>	Analog Resistance type
<i>KEYPAD</i>	30 Keys including 7 Soft- Functions, 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>PERSONAL AREANETWORK</i>	Bluetooth class II, v2.1 EDR
<i>LOCALAREANETWORK</i>	IEEE 802.11 b/g 54 Mb/s
<i>WIDE AREA NETWORK</i>	Tripleband,850/1900/2100Mhz Quadband850/900/1800/1900 MHz
<i>LONG RANGE COMMUNICATION (OPTION)</i>	Up to 600 meters(*)
<i>MAIN BATTERY</i>	Lithium-ion Polymer, 3.7V, 3,800mAh, USB charging thru PCs supported
<i>FIELD SERVICE FEATURE</i>	E-Compass/G-sensor/Gyro
<i>INTERFACE</i>	USB OTG, RS -232

## GPS Performance

<i>FORGE 912/952</i>	
<i>RECEIVER TYPE</i>	50CHANNEL, GPS L1 Frequency C/A Code
<i>EXTERNAL ANTENNA</i>	Standard MMCX Connection In terface
<i>TIME TO FIX</i>	Cold Start (Autonomous): 29s Warm Start (Autonomous): 29s Hot Start (Autonomous): <1s
<i>ACCURACY</i>	Autonomous: 1~3 Meters S BAS: 1~2 Meters NTRIP/eGPS: <1 Meters P ost-Process: Static (over 30 min.): centimeter Stop & Go (over 30 sec.): submeter

## Software

<i>OPERATING SYSTEM</i>	Windows Embedded Handheld 6.5
<i>Available Languages</i>	English, Spanish, French, German, Traditional Chinese, and Simplified Chinese
<i>BLUETOOTH PROFILES SUPPORTED</i>	GAP, SDP, GOEP, DUN, SPP, OPP, A2DP, PAN, HID
<i>SYSTEM APPLICATIONS</i>	Office Mobile Windows Live Messenger, Windows Live Search Plug-in, Remote Desktop Mobile
<i>FIELD APPLICATION MOBILE APPLICATION</i>	GMS- EZS GIS Suite with Post- processing support GeoAssist with paired solution Post- processing support
<i>DESKTOP APPLICATION</i>	GeoCamera GMS- EZS Office with EZSurv Post-processing application BAP Toolchain for RINEX Converter
<i>SOFTWARE COMPATIBILITY</i>	BAP GMS- EZS for postprocessing GPS controller software Carlson GIS360

## Environmental Specification

<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 IP67, 8 hours dust, 1 meter for 30 min s. water
<i>VIBRATION</i>	Per MIL-810G Method 514.6 Procedure I. Category 4 & 2
<i>THERMAL SHOCK</i>	Per MIL-810G Method 503.5 Procedure I-C, -30°C to 70°C for 4hrs.
<i>DROP RESISTANCE</i>	Per MIL-STD-810G Method 516.6 Procedure IV, 1.5m onto steel s urface.
<i>TUMBLE RESISTANCE</i>	Per IEC 68-2-32 Procedure 2, 0.5m, randomly 1000 times on hard surface with 19mm thickness wood backed by 3mm thickness steel.

## Physical Specification

<i>WEIGHT</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.