



DuraMax HG Mobile Computer

GPS Enabled, Ultra-Rugged Handheld



Access information. Anytime. Everywhere.

The DuraMax HG rugged handheld mobile computer is designed to keep you connected - even in the most treacherous conditions. GPS enabled and rigorously tested, this rugged mobile computer will withstand the elements and function when you need it most. Off the shelf or customized to your specifications, partner with Grayhill and you will see results.



Outdoor Rugged

The DuraMax family of Hand Held Mobile computers has the field proven **reliability** your application demands.

Stands up to **MIL-STD-810F** for drops, vibration, temperature extremes, and humidity.

Sealed to IP67 for dust and sand and can be submersed in 1 meter of water for 30 minutes.

Outstanding **sunlight readability**, viewing angle, and color

8-15 hour **battery life** dependent on settings. Hot swappable battery with 90-second ride through.

Tether to external USB or serial devices through sealed connector.

Custom Features

Wide range of **color choices**. Black or olive drab at no additional cost.

Private Labeled with your logo at no additional cost.

Custom keypad legends at no additional cost.

Integration **support** for numerous wireless communications options.

Ask us about longer life batteries, digital camera, GSM/GPRS, Linux, and lower cost displays.

Optional accessories include replacement batteries, recharging cables, and belt carrying case

Local Dealer Label - PLACE HERE



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Base Unit Specifications

Physical

Dimensions: 7.95" x 3.5" x 1.7" (209 x 89 x 43mm)
Weight: 1.25 lbs. (.57kg) with battery
Power on LED on face of unit

Keypad

Illuminated keypad
PDA – 6 hot keys, 8-Way Navigator

Electronics

Processors: Marvel PXA 270 XScale (416 MHz)
On-Board Flash Storage: 64 MB
RAM Memory: 128 MB SRAM
CompactFlash (CF) Type II slot
Secure Digital (SD or IO) slot

Operating System

Windows CE 5.0

Audio

Built-in microphone and speaker

High Contrast Color Display

Technology: Color TFT transfective LCD
Readability: sunlight readable
Size: 3.5" diagonal (89 mm)
Resolution: VGA 640 x 480 pixels
Brightness: 150 bits (LED Backlit)
Color Depth: 16 bit
Profile: Selectable for portrait of landscape

Rugged Touchscreen

Technology: 5 wire resistive (stable over time)
Ruggedness: Industrial strength - Passes EN50021
high level impact with 500g load, 20 times

Battery

Battery Life: 8 hours – 15 hours (see web site)
Battery Size: 15.5 WHr
Hot-swappable with 90 sec. of ride-through without
losing data
Type: Li-on
Charges in 2 to 4 hours

Internal Wireless Options

802.11 b/g WPA Wireless
Blue tooth Class 1, Version 1.2

Ports

Docking Station Connector: Sealed with USB
Host/Client, RS-232 and power.
External GPS antenna connector.

Installed Applications

Windows Media Player, Internet Browser (Internet
Explorer Type), Windows Explorer, Control Panel and
Control Panel Applets, Soft Input Panel (On Screen
Keyboard)

Installed Services

ActiveSync, Microsoft Windows Networking, FTP
server, SQL Server, Complete power
management

Installed Components

MFC (Microsoft foundation classes), .NET Compact
Framework, Scripting support (JavaScript and VB
Script)

Installed Support

802.11b/g, Bluetooth, USB Support for mouse,
Keyboard, Mass storage, ActiveSync

Environmental

Operating Temperature: -20 to 60°C (-4 to 140°F)
Storage Temperature: -20 to 60°C (-4 to 140°F)
Thermal Shock: -20 to 60 C per IEC 60068-2-14
Humidity: 95% non-condensing, per IEC 60068-2-3,
Severity 10 days
Vibration: 2.0 G acceleration sinusoidal 10-150 Hz,
each axis, per MIL-STD 810F
Mechanical Shock: 50 G for 11 ms, half sine, per IEC
60068-2-27, 3 shocks each axis
Seal Test (with port covers on): IP67 per IEC 60529,
Sand and dust per NEMA 250
Salt Spray: Per NEMA 250
UV: Per MIL-STD-810F
Display/Touchscreen Impact: per EN50021, high-level
impact with 500g load, 20 times
Drop Testing: 4 foot drop MIL STD 810F, 26 times
onto concrete

GPS Characteristics

Accuracy: 2-5 Meter
Integrated real-time DGPS: WAAS or EGNOS
Update rate: 1 Hz
RTCM SC-104 real-time correction support, RTCM
version 2.1 (9,2 & 1,2)
Protocol: NMEA 0183 v 3.0
Single axis compass included
Barometer for altitude included

Certifications

Emissions and Susceptibility: CE per EN55011 /
CISPR 11, Class B (3 meter) and EN61000-6-2; FCC
Part 15 Class B; European Union EMC Directive

Standard DuraMax Includes:

Stylus pens
Quick start guide
Universal AC charger adapter cable
Removable, rechargeable battery

Optional Accessories

DC charger cable with cigarette lighter adapter
15.5 or 21 Whr replacement lithium-ion battery
Four bay battery charger
Belt Carrying case
Developer cable with USB, charger and serial
ports
USB to serial converter
Users Guide (see web site)

Other

ITARs compliant
RoHS compliant
18 month warranty
8 hours free development support with first purchase

Specifications subject to change without notice

DuraMax HG Configurations

	RAM	GPS	Compass	Barometer	BT	802.11
M1DURA-HG-C	128MB	X	X	X		
M1DURA-HG-C-WB	128MB	X	X	X	X	X



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