

# GD8000



The GD8000 is designed for the rugged user and tested to military extremes. Whether the GD8000 is used in a desert helicopter mission or in a patrol car in northern Canada, one thing remains the same; the GD8000 will provide years of rugged use at a low cost of ownership.

## GD8000

### High Performance Fully-Rugged Notebook

#### Rugged

It Goes Where You Go

- Meets and exceeds MIL-STD 810F
- Withstands 26 drops from 42" (one unit, operating, standard HDD)
- Withstands 6 drops from 48" (non-operating)
- Operating temperature -22°F (-30°C) to +145°F(63°C)
- Tested to stringent helicopter vibration profile
- Sealed against dust and water intrusion (IP64)
- Magnesium alloy casing and high impact resin
- Crash-tested for in-vehicle safety (with Approved Vehicle Dock)
- Hazardous Location Class 1 Division 2 (UL 1604)

#### Ergonomic

Lightweight Full-Size Rugged Notebook (as low as 6.9 lbs)

- Desktop quality, full-sized, sealed keyboard
- Easy to use display latch, even with gloved hands
- Optional NiteVue™ keyboard for enhanced contrast
- Side I/O for ease of use
- Intuitive design for easy operation
- Integrated soft comfort front handle

#### Wireless

WWAN\*, WLAN, PAN, and GPS available all in one system

- Optimized antenna placement at top edge of display
- Gobi 2000 ready
- Accurate GPS to within 2 meters
- Switchable WWAN\* and WLAN for in-vehicle applications
- Seamless roaming for uninterrupted coverage with persistent software
- CRMA™ Express for field upgrade ability to new WWAN\* technologies
- Optional High-Power WLAN
- 100 meter line-of-sight Bluetooth 2.0

#### Computing Performance

Run Multi-threaded Applications, like moving GPS maps

- Intel® Core2 Duo; FSB 1066 MHz, 1.86 GHz
- Intel® GMA Media Accelerator 4500MHD with 1024MB shared memory
- Up to 4GB of ultra fast DDRIII Memory
- DynaVue® patent-pending touchscreen display for outdoor viewability

**GENERAL DYNAMICS**  
Itronix



## Durability Features:

- Meets and exceeds MIL-STD 810F
- Dust/Water tight (IP64/IEC 60529)
- Die-cast magnesium chassis
- Optional Hazardous Locations Compliance
- SAE J1455 vehicle crash tested (with certified vehicle dock)

## Memory:

1GB-4GB DDRIII DRAM\*

## CPU:

- Intel® Core2 Duo (SL9400) 1.86 GHz Processor
- FSB 1066 MHz, 6MB L2 Cache
- SMBIOS Enabled

## Video Graphics:

- Intel® GMA 4500MHD
- 1024 MB shared DVMT 5.0 video memory

## Display:

- 13.3" TFT XGA outdoor viewable DynaVue® patent-pending display
- DynaVue® exceeds the minimum contrast ratio per DOD-STD-3009
- Display heater (standard)

## Product Specifications

### Operating System:

- Microsoft® Windows® XP Professional, SP3
- Microsoft® Windows® Vista Business, SP1

### Storage:

- 160 GB shock mounted with heater 2.5 in. (6.35cm) ruggedized, removable 5400 RPM SATA HDD\*\*
- 64 GB solid state drive (optional)

### Integrated Wireline Communications:

- 56 Kbps V. 92 fax/modem
- 10/100/1000M bit Ethernet LAN

### Integrated Wireless Communications:

- Up to 3 RF modems and a GPS receiver can be integrated at one time
- Engineered for minimum desense
- MobilityXE™ software for secure wireless access and seamless roaming between your wireless or wired WAN and LAN coverage areas

### Wireless LAN (Options):

- Intel® Wi-Fi Link 5100 802.11 a/b/g/draft-n network connections
- 2.4, 5.0 GHz dualband diversity antennas

### Audio:

- Internal microphone and (2) speakers
- PCI HD Audio with AC97 compliance

\*WWAN currently only supported in North America. For country specific support, please contact your local sales representative.

### Wireless WAN\* (Options):

- Choice of EV-DO/1xRTT/CDMA or HSDPA/UMTS/EDGE/GSM
- Common Radio Module Architecture (CRMA) Express with fully integrated, field replaceable WWAN\* radio modules
- Integrated 800 - 2500 Ultra-Wideband antennas

### Wireless PAN (Options):

- Bluetooth V 2+EDR
- Class 1 (100m (328ft) line-of-sight)
- Integrated antenna

### GPS (Options):

- Fully integrated GPS
- Di-electrically loaded high performance quadrifilar helix antenna
- SIRFXTrac high sensitivity GPS software for increased acquisition and tracking

### Keyboard & Input:

- Full-sized, 87-key sealed keyboard
- Choice of Black keyboard, NiteVue™ glow-in-the-dark or backlit keyboard
- Localized versions available
- Capacitive Touchpad

### Expansion Slots:

- Type II PC Card Slot (standard)
- Optional SmartCard reader or

Express54™ card reader

### Media Bay:

- Swappable media bay accepts: MULTI DVD-RW/CD-RW, or secondary battery

### I/O Interface:

- RJ-11 (wireline modem), and RJ-45 (ethernet LAN), 3x USB 2.0, serial port (9-pin), external video (15-pin), audio headphone (mini jack), microphone (mini jack)

### Power Supply:

- 7200 mAh (79.9W) Lithium Ion main battery
- Optional 3800 mAh (41.1W) Lithium Ion media bay battery pack
- Battery life of 8 hours with main battery, 12 hours with secondary battery
- Power Saver for user selectable power management optimization
- Hot swappable battery option

### Enhanced Security & Protection:

- Password security: Pre-boot, Supervisor, User
- Localized versions available
- Capacitive Touchpad
- Trusted Platform Module security chip (TPM v1.2)
- Fingerprint reader (optional)
- Smart Card (CAC Card) Reader (optional)

- Kensington Cable lock slot

- Stealth mode: To boot-up without sound/light emissions
- Computrace® theft recovery and data protection agent in BIOS (optional)\*\*\*

### Dimensions & Weight:

- 2.36" (H) x 12.0" (W) x 11.5" (D) (60mm (H) x 305mm (W) x 292mm (D))
- 6.9lbs (3.1 kg) Basic configuration

### Accessories:

- Vehicle Cradle with or w/o RF Connectors
- Office Dock
- AC Adapter & Cord (90W)
- Vehicle Adapter - 12V - 24V (90W)
- External battery chargers
- Protective keyboard and display overlays
- Choice shoulder strap and cases
- Additional stylus available

### Warranty:

- 3 year warranty

\* Total available memory will be less than 4GB. To fully utilize 4GB memory, a 64-bit enabled processor and operating system are required.

\*\* Actual formatted capacity varies based on preloaded devices and operating system.

\*\*\* Requires software and activation to enable theft protection.

## GENERAL DYNAMICS

Itronix

**North America Head Office:** 1000 Sawgrass Corporate Parkway, Suite 300, Sunrise, FL 33323 • Tel: +1 800 441 1309 • +1 954 846 3400 • Email: sales@gd-itronix.com • www.gd-itronix.com

**EMEA Head Office:** Earlplace Business Park, Fletchamstead Highway, Coventry, CV4 9UR UK • Tel: +44(0) 24 7671 4800 • Fax: +44(0) 24 7671 5677 • Email: sales@gd-itronix.eu • www.gd-itronix.eu

**Germany:** Tel: +49 211 5 23 91 459 • Fax: +49 211 5 23 91 200 • Email: sales@gd-itronix.eu • www.gd-itronix.eu

**France:** Parc d'Affaires Siliic, 74 Rue d'Arcueil, BP 10405, 94573 RUNGIS Cedex, France • Tel: +33(0) 1 46 87 80 09 • Fax: +33(0) 1 45 60 55 95 • Email: sales@gd-itronix.eu • www.gd-itronix.eu

**Canada:** 2783 Thamesgate Dr., Mississauga, Ontario, L4T 1G5, Canada • Tel: +1-800-571-5434 • +1-905-672-7007 • Fax: 1-905-672-3999 • Email: sales@gd-itronix.com • www.gd-itronix.com

**Asia:** 5th Floor-2, No. 80, Chung-Hsiao East Road Sec. 2, Taipei 100, Taiwan • Tel: +86 2 2393 0660 • Fax: +86 2 2395 5256 • Email: sales@gd-itronix.com.tw

© 2009 General Dynamics. All rights reserved. General Dynamics Itronix Corporation reserves the right to make changes in its products and specifications at anytime and without notice. All trademarks indicated as such herein are trademarks of General Dynamics Itronix. All other product and service names are the property of their respective owners. ® Reg. U.S. Pat. and Tm. Off. V2 04/09