

# 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® Graphics 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 dense
- 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

### 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 WWA
- 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
- SiRFXTac 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
- 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.

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