

# Rugged and Semi-Rugged GoBook® Notebooks

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Model Name	GoBook® XR-1	GoBook® VR-2
Rugged Classification	Rugged Notebook Computer (Die-Cast Magnesium)	Semi-Rugged Notebook Computer
Dimensions	1.98" (H) x 11.8" (W) x 9.65" (D)	2.24" (H) x 12.05" (W) x 10.24" (D)
System weight (battery included)	6.8 lbs (3.1 kg)	6.2 lbs (2.81 kg)
Rugged Specifications	Meets and exceeds MIL STD 810F; IP54 Rating; Sealed I/O ports; Optional Compliance UL1604 Class 1, Division 2, Group A, B, C, D for Hazardous Location SAE J1455 Vehicle Crash Tested (when used in an GD-Itronix certified vehicle dock)	Meets MIL STD 810F standards for Temperature, Vibration, Humidity, and Altitude, and ANSI ANSI/IEC 529 5x dust ingress protection
Processor	1.83 GHz Intel® Core™ Duo (T2400) and a ATI RADEON Mobility X300 128M HyperMemory external graphics controller with 32MB dedicated memory, 96MB shared memory for a total of 128MB graphics memory	Intel® Core™ Duo (T7300)
Mounting Options	Vehicle Cradle with or without RF Connectors; Office Dock	Vehicle Dock with or without external antenna connections for WLAN and WWAN; Office Dock
Display	12.1" TFT XGA Outdoor Transmissive ColorVue™ Display with heater	13.3" XGA transmissive TFT Active Matrix Color LCD with Mobil Intel® 965 Chipset, Dynamic Video Memory Technology (DVMT) up to 384MB
Touchscreen	Integrated	Passive 1000 x1000 Resolution
Backlit Display	User adjustable to 55 steps	User adjustable to 35 steps
Sunlight-visible Displays	Hi Bright Transmissive Display	DynaVue™ patent-pending technology
Hard Disk Drive (HDD) or CompactFlash	Shock Mounted 2.5" 80 or 120GB Removable HDD; Standard HDD Heater for extreme cold temperatures	Standard Shock Mounted 2.5" 80GB removable hard disk drive (HDD); Optional 120GB HDD; Optional HDD heater for low temperature performance
Operating system	Microsoft® Windows XP® Professional, SP2	Microsoft® Windows XP® Professional, SP2
Memory Available (std. and max.)	512MB - 4GB DDRII DRAM	Standard 512MB SDRAM (DDRII), expandable to 4096MB
Available Drives	Swappable Media Bay accepts: Combo DVD-ROM/CD-RW; DVD+-RW/CD-RW; or secondary battery	Standard Multi-drive CD-RW/DVD-RW
I/O Ports	RJ-11 (wireline modem); RJ-45 (ethernet); 3x USB 2.0; 9-pin Serial Port; 15-pin external video; FireWire™ (IEEE1394a); audio; microphone	RJ-45; RJ-11; 9-Pin Com; 15-Pin VGA; Audio I/O; 56k modem; 10/100/1000 Ethernet; 2x USB 2.0; PC card slot for (1)Type I; II; card with 32 bit card bus and support for zoomed video; Optional Smart Card reader, PCI, and Express card
Keyboard	Full-sized, 87-key sealed keyboard; NiteVue® glow-in-the-dark or backlit options available; Localized versions available; Capacitive Touchpad	Full-sized, 84-key keyboard, with dedicated Windows(R) key; 3-button electrostatic touchpad with scrolling support
Power supply	7200 mAh (79.9Wh) Lithium-Ion main battery; Optional 3800 mAh (41.1Wh) Lithium-Ion secondary media bay battery pack	Standard 6 Cell high capacity Lithium-Ion (47.52Wh) main battery; Optional 9 Cell high capacity Lithium-Ion (71.2Wh) 12/24V vehicle adapter; AC adapter
Battery life (w/o radios)	4-6 hrs main battery; 5.5 - 7 hrs with secondary media bay battery pack	3 - 5 hrs
Modem	56 Kbps V.92 fax/modem; 10/100/1000M bit Ethernet LAN standard	56 Kbps V.92 fax/modem; 10/100/1000M bit Ethernet LAN standard; Mini PCI option
Integrated Wireless (Option)	Up to 3 RF modems and a GPS receiver; Mobility XE™ software for secure wireless access/roaming between wireless/wired WAN and LAN coverage areas	Support for simultaneous WWAN, 802.11a/b/g to a/g/n, GPS, Bluetooth®, and WLAN; Intel(r) PRO/Wireless 4965 Network Connection with respective drivers; Radio On/Off switch, CRMA Express, EVDO, HSDPA, GPS, Quadra-helix antenna, SIRF III firmware / software, and Bluetooth®
Warranty	3 yr Limited Warranty. Expanded service option: Ruby/Emerald and Diamond	3 yr Limited Warranty. Expanded service option: Sapphire and SapphirePlus
Accessories	Vehicle cradle; Office dock; AC adapter (90W); Vehicle adapter (12V - 24V); External battery charger; RF contacts (for external vehicle-mounted antennas); Protective keyboard/display overlays; Carry handle, Shoulder strap, and carry case	Vehicle Dock with or w/o RF switch connectors; Office Dock; AC Adapter & Cord (65W); Vehicle Adapter - 12/24V (70W); off Handle; Shoulder Strap, Express Card Reader, Smart Card Reader, Fingerprint Scanner; Custom Labels; Custom Disk Image
Operating Temperature	Operating temperature: -23° to 60°C (-10° to 140°F) Storage temperature: -55° to +75°C (-67° to +167°F)	Operating temperature: -20° to 60° C (-4° to 140° F) with optional hard drive heater

## About General Dynamics Itronix

General Dynamics Itronix is a world-class developer of wireless, rugged computing solutions for mobile workers in a variety of markets:

- Commercial Field Service
- Telecommunications
- Public Safety and Emergency Services
- Military and Government
- Utilities
- Insurance

From notebooks to handheld computers to Tablet PCs, and mobile servers and thin clients, GD-Itronix delivers highly integrated wireless mobile solutions that are suited for mission critical applications in adverse environments. Coupled with a comprehensive offering of services, including implementation, project management and asset management, GD-Itronix provides the full turnkey solution. For more details on GD-Itronix, its partners, and its products, please contact us:

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# Rugged Tablet PC's and Ultra-Mobile Notebooks

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Model Name	Duo-Touch™ Tablet PC	GoBook MR-1
<b>Rugged Classification</b>	Rugged 'Slate' Tablet PC (Die-Cast Magnesium magnesium)	Fully-Rugged, Ultra-Mobile Notebook (Die-Cast Magnesium)
<b>Dimensions</b>	10.6" (L) x 1.65" (D) x 7.2" (W)	1.56" (H) x 6.0" (W) x 4.33" (D)
<b>System weight (battery included)</b>	4.0 lbs (1.8 kg)	2.0 lbs (.91 kg) with standard battery
<b>Rugged Specifications</b>	Meets MIL STD 810F; IP 54 Rating; Optional Compliance UL1604 Class 1, Division 2, Group A, B, C, D for Hazardous Location	Meets and exceeds MIL STD 810F; IP54 Rating; Sealed I/O Ports; Optional Compliance UL1604 Class 1, Division 2, Group A, B, C and D for Hazardous Location
<b>Processor</b>	Intel® Pentium® M 733 @ 1.16 GHz (ULV)	Intel® Core™ Solo ULV, 1.2GHz U1400, 533 FSB, 2 MB L2 Cache
<b>Mounting Options</b>	Vehicle Dock and Desk Mount with Communications Ports	Vehicle Dock with or w/o RF Connectors; Expanded IO box; Office Dock
<b>Display</b>	8.4" SVGA TFT Transmissive / Active and Passive touchscreen	5.6" WSVGA outdoor viewable
<b>Touchscreen</b>	Std. Active (digitizer pen required) 2540 PP	Integrated with patent pending DynaVue™ optimized outdoor viewable display
<b>Backlit Display</b>	User adjustable to 25 steps	User adjustable to 64 steps
<b>Sunlight-visible Displays</b>	Hi Bright Transmissive display, daylight readable polarizers	DynaVue™ patent-pending technology
<b>Hard Disk Drive (HDD) or CompactFlash</b>	Shock mounted 2.5" 40GB or 80GB with optional heater	Shock mounted 1.8" PATA 40GB or 80GB with Hard Disk Drive heater Optional 16GB or 32GB Solid State Drive
<b>Operating system</b>	Microsoft® Windows XP® Tablet PC Edition 2005	Microsoft® Windows XP® or Windows VISTA®
<b>Memory Available (std. and max.)</b>	512 to 1280 MB SDRAM DDR II CardBus	512MB or 1GB
<b>Available Drives</b>	PC Card type I or II CompactFlash type I or II	N/A
<b>I/O Ports</b>	RJ-11; (2) USB; 26-Pin docking; audio; RJ-45 for 10/100/1000 Mbps Ethernet LAN	1 USB and Docking Connector. Optional Expansion Module with 1 RS 232 and 1 USB
<b>Keyboard</b>	Virtual Keyboard; External USB Keyboard option	76 key keyboard with 2 programmable keys, 2 navigational devices, dedicated CTRL-ALT-DEL key and a dedicated back lit keyboard ON OFF key
<b>Power supply</b>	3900mAh LI-Ion (main), 3600mAh LI-Ion (expansion), 12V and 24V vehicle adapter, 90W power adapter	4000 mAh (29Wh) Lithium Polymer main battery. Optional 8000 mAh (59Wh) Lithium ION 'extended' battery pack. Battery Gas Gauge
<b>Battery life (w/o radios)</b>	3 hrs (main); 6 hrs (main + expansion)	3 hours (main); 6 hours (extended)
<b>Modem</b>	56kbps V.92	N/A
<b>Integrated Wireless</b>	Support for simultaneous WWAN, 802.11b, Bluetooth® and GPS radios; WWAN options include EDGE/GPRS, or 1x EV-DO/UMTS	Support for simultaneous WWAN, 802.11 a/b/g and Bluetooth®; WWAN options include 1xRTT/EVDO or EDGE/UMTS/HSDPA
<b>Warranty</b>	3 yr Limited Warranty. Expanded service option: Ruby/Emerald and Diamond.	3 yr Limited Warranty. Expanded service option: Sapphire, SapphirePlus
<b>Accessories</b>	Vehicle Power adapter; Hand strap; Port replicator; Carry cases; Shoulder straps; Expansion (secondary) battery	Mini Office Dock; Vehicle Dock
<b>Operating Temperature</b>	Operating temperature: -20° to +60° C (-4° to +140° F)	Operating temperature -20° to +60° C (-4° to +140° F)

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