



GETAC V100 Info Pack

V100

Rugged Notebook

Introduction

The GETAC V100 is a convertible tablet pc using state of the art technology. It is one of the few computers in the convertible tablet category of systems designed to be light whilst still maintaining the high rugged standards. Different professional markets require different wireless capabilities; V100 supports 3G, WLAN, GPRS and Bluetooth. No matter if the user is in the office, on a vehicle or outdoors, they can always stay connected without any worries.

Designed to offer convenience and fully rugged standards in demanding military, law enforcement, utility and field service applications, the new V100 is Getacs first convertible tablet pc featuring a choice of screen sizes, light weight design and 180° rotatable screen to transform from a notebook into a tablet pc.



The V100 is housed in a magnesium alloy case and features fan-less design, removable hard drive and high portability 2.2 kg weight along with a lower power consumption Intel Core Duo 1.2 GHz processor, 512 MB DRAM and an 80 GB hard drive. As a member of the GETAC fully rugged family, the V100 also complies with the MIL-STD 810F and IP54 standards.

The V100 is a lightweight solution with full rugged protection combining high security, full wireless access functionality, dual mode notebook/tablet use, high performance and versatile interface providing the most complete portable computing platform for severe environmental applications.

To satisfy customers' needs in different situations, V100 provides a choice of 10.4" XGA or 12.1" WXGA LCD screen sizes and also optional sunlight readable solutions with digitizer and stylus pen or with the touch screen to accommodate the use under sunlight. Different professional markets require different wireless capabilities so V100 fully supports 3G, WLAN, GPRS and Bluetooth.



Rugged Design

The GETAC V100 tablet complies with the Mil-Std 810F standard for withstanding drops, shocks, humidity and extreme vibration. The V100 also has an international protection rating of IP54, meaning that its chassis can prevent the ingress of dust particles and repel water.



To complete its rugged design, the V100 has knurled plastic protection along every edge whilst shock-absorbing rubber bumpers cushion every corner. Ports are sealed behind rubber-edged plastic flaps, and the battery and hard disk are stored behind sturdy magnesium doors, kept shut by dual catches. The hard disk is suspended in a slide-out metal caddy and equipped with a drop sensor to park the heads in the event of a fall.

All GETAC products are water-proof to protect the computer from unexpected spills and sprays.

Lightweight

The GETAC V100 is a lightweight convertible tablet solution, weighing 2.2Kg. With the supplied hand-strap affixed to its underside the V100 can be carried around without cause for complaint.

Upgradable

An impressive selection of optional extras allows the V100 to extend its talents to a wide range of applications. Bluetooth, 802.11a/b/g, and gigabit Ethernet all come as standard, however these can be supplemented with GPS which replaces the webcam, HSDPA or EVDO. Other options include a rubber backlit keyboard option, a low temperature option and a vehicle docking station with port replicator.



Key Features of the GETAC V100

- 180° rotatable screen transformable from a notebook to a tablet pc
- 10.4" or optional 12.1"(wide) LCD screen
- Intel Core™ Duo processor
- MIL-STD 810F and IP54 compliance
- Magnesium alloy casing with hand strap
- Shock-mounted removable hard drive
- Sunlight readable display solution
- Integrated GPS, Bluetooth, 3G and 802.11a/b/g capability
- Reversible waterproof camera

Rear View



- 1 Line Out
- 2 Microphone
- 3 External VGA
- 4 RS232 Serial Port

Left View



- 1 DC In
- 2 USB 2.0 Ports
- 3 RJ-11
- 4 RJ-45
- 5 SD Card Reader
- 6 PCMCIA Slot

Right View



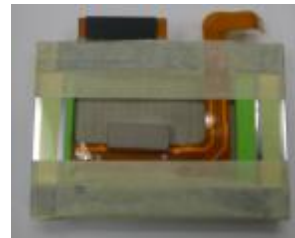
- 1 Battery Door
- 2 Hard Disk Drive Door

Low temperature support

The V100 tablet features an option to incorporate a low temperature operation hard disk caddy. The caddy features an integrated heater designed to heat the hard disk in temperatures as low as -20°C to ensure reliable operation in even the harshest environments.



Coil Design



FPC Design

Additional features of the V100 convertible tablet include:

- Long battery life
 - More than 6 hours (Standard battery)
 - (Up to 10 hours with extra battery option)
- Light weight
 - Only 2.2 kg
- Best display performance
 - With Ultra high brightness (550 nits)
- Reversible integrated CAMERA
 - 1.3 Mega Pixel and 225 degree reversible angle

System Specifications

| Model Feature/Function | V100 (V100-1 / V100-2) | Remark |
|---------------------------------|------------------------------------|---|
| Processor | | |
| Intel® Core™ Duo ULV | 1.2 GHz | Processor number: U2500 |
| FSB | 533 MHz | |
| 2 nd level cache | 2M | |
| Chipset | | |
| Northbridge | Intel® 945GMS | |
| Southbridge | ICH7-M | |
| Memory | | |
| DDR2 (533 MHz) | 512MB | Optional: 1GB |
| VGA Controller | Intel® GMA 950 | |
| Display | | |
| TFT LCD | V100-1 with 10.4" XGA (1024 x 768) | Optional: V100-2 with 12.1" WXGA (1280 x 800) |
| Sunlight readable solution | Optional | Optional for 10.4" and 12.1" W LCD |
| Active digitizer (A/D) | Optional | 1. Optional for 10.4" and 12.1" W LCD 2. Not with T/S feature at same time |
| Touch screen (T/S) | Standard | 1. For 10.4" and 12.1" W LCD 2. Not with A/D feature at same time |
| HDD | | |
| SATA I (1.5GHz / 5400 rpm) | 80GB | Optional: 120GB/160GB |
| CAMERA (Integrated 1.3M pixel) | Optional | 1. Optional for 10.4" and 12.1" W LCD 2. Not with GPS feature at same time |
| Keyboard | | |
| Water proof membrane | Standard | |
| Water proof rubber | Optional | |
| Water proof rubber back-lighted | Optional | |
| Touch pad (capacitance type) | Standard | |
| PCMCIA | Type II x 2 | Optional: |

| | | |
|---|--------------------------------------|---|
| | | Type II x 1 and Smart card reader x 1 |
| SD (Security Digital) card reader | Standard | |
| Audio | | |
| Azalia 32 bits audio digital controller | Standard | |
| Speaker (3Wx1) | Standard | |
| I/O Port | | |
| Serial port (RS232) | X 1 | |
| USB 2.0 | X 2 | |
| External VGA | X 1 | Optional: 1. Replaced by Serial port (RS232) 2. Replaced by Serial port (RS422) |
| RJ-45 (10/100/1000 base T-Ethernet) | X 1 | |
| RJ-11 (56K, ITU V.92 modem) | X 1 | |
| Microphone (Line in) | X 1 | |
| Line out | X 1 | |
| Docking connector | Standard | To engage with vehicle docking |
| Docking connector – RF Switch | Optional | For WWAN and WLAN pass through |
| DC in | X 1 | |
| Communication Interface | | |
| 10/100/1000 base-T Ethernet | Standard | |
| 56K ITU V.92 modem | Standard | |
| Intel® PRO/Wireless 3945 a/b/g | Standard | |
| GPS (Integrated) | Optional | 1. Optional for 10.4" and 12.1" W LCD 2. Not with CAMERA feature at same time |
| 3G - CDMA 2000 1x EVDO | Optional | Not with WCDMA/HSDPA (UMTS) at same time |
| 3G - WCDMA/HSDPA (UMTS) | Optional | Not with CDMA 2000 1x EVDO at same time |
| Bluetooth | Optional | |
| Security | | |
| TPM 1.2 | Standard | Availability may vary |
| Smart card reader (Integrated) | Optional | Occupy one Type II slot |
| Kensington lock | Standard | |
| Power | | |
| AC adaptor | 40 Watts, Input 100-240v, 50/60Hz AC | |
| Li-Ion Smart battery | 5200mAh / 11.1Volt | Optional: 7800mAh / 11.1Volt |

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|--------------------------------|--|--|
| Physical | | |
| Dimension | 285X222x49mm (11.2"x8.7"x1.9") for 10.4" LCD | 311x222x49mm (12.2"x8.7"x1.9") for 12.1"W LCD |
| Weight | 2.2kg (4.9lbs) | |
| Grip type strap | Standard | |
| Accessories | | |
| Carrying bag | Optional | |
| Standard battery pack | Optional | |
| Optional battery pack | Optional | |
| Cross type strap | Optional | |
| External battery charger | Optional | |
| Vehicle mount | Optional | No docking connector is needed |
| Vehicle docking | Optional | Need to combine with docking connector option |
| Car adapter | Optional | |
| Special option | | |
| Low temperature -20°C solution | Optional | For 5200mAh and 7800mAh battery and HDD heater |
| MIL – STD – 461E | Optional | |
| Operating System | Microsoft® Windows® XP Professional | For touch screen solution |
| | Microsoft® Windows® XP | For active digitizer option |
| | Tablet PC Edition 2005 | |

System Environmental Test Specifications

| Item | Test Criteria |
|-------------|---|
| Temperature | According to IEC 68-2-1,2,14 / MIL-STD-810F, Method 501.4, 502.4 <ul style="list-style-type: none"> Operating: 0°C (32°F) to 55°C (131°F) -20°C (4°F) to 55°C (low temperature option) Non-operating: -40°C (-40°F) to 70°C (158°F) |
| Humidity | According to IEC 68-2-30 / MIL-STD-810F, Method 507.4 45% to 95% RH, non-condensing |
| Altitude | According to IEC 68-2-13/ MIL-STD-810F, Method 500.4 <ul style="list-style-type: none"> Operating: 15,000ft Non-operating: 40,000ft Attitude change rate: 2,000ft/min |
| Shock | According to IEC 68-2-27/ MIL-STD-810F, Method 516.5 |
| Drop | According to IEC 68-2-32 / MIL-STD-810F, Method 516.5 |
| Vibration | According to IEC 68-2-6 / MIL-STD-810F, Method 514.5 |

| | |
|------------|---|
| ESD | According to IEC1000-4-2 |
| Enclosure | According to IEC 529, NEMA, MIL-STD-810F, Method 506.4, 510.4 IP 55 compliance |
| Regulation | FCC, UL, CUL, TUV, CE, CB, CCC, PSE, WHQL, BSMI, RoHS, E-Mark |
| Others | MIL-STD-461E (option) |

Note: 1. Specification update is subject to change without further notice.

2. Weight may vary depend on configuration combination