Panasonic



TOUGHBOOK 31

- Sunlight-viewable Touchscreen with Panasonic CircuLumin™ Technology
- Full Magnesium Alloy Case with Handle
- 18-hour Battery Life (27 Hours with Optional Media Bay 2nd Battery)
- Standard Backlit Keyboard
- Optional 4G LTE Multi Carrier Mobile Broadband with Satellite GPS







POWERFUL, RUGGED AND WIRELESS.

Panasonic presents the Toughbook® 31, the reliable laptop offering the world's most rugged design. With drop-shock protection and a MIL-STD-810G certification, it's the undisputed leader in the fully rugged category. Its new Intel® Core™ i5 processor packs a punch to deliver desktop-class performance and amazing battery life—18 hours, or 27 hours with optional media bay 2nd battery. Combine six generations of delivering rugged performance plus 15 years of consistent docking compatibility, and you have a computer that will go the distance with you anytime, anywhere.





Panasonic recommends Windows.

| SOFTWARE | Windows® 10 Pro (available Windows® 7 Professional downgrade option) Windows® 8.1 Pro | SECURITY FEATURES Password Security: Supervisor, User, Hard Disk Lock |
|------------------|--|---|
| DURABILITY | MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere]¹ MIL-STD-461 F certified IP65 certified sealed all-weather design¹ Hard drive heater Full magnesium alloy case with handle | Kensington cable lock slot Trusted platform module (TPM) security chip v.1.2 Computrace* theft protection agent in BIOS* Intel* Anti-Theft Technology Optional fingerprint reader Optional insertable SmartCard reader |
| | Shock-mounted flex-connect hard drive with quick-release Reinforced locking port covers Pre-installed replaceable screen film for touchscreen protection | WARRANTY 3-year limited warranty, parts and labor |
| CPU ² | Intel® Core™ i5-5300U vPro™ Processor 2.3GHz with Turbo Boost up to 2.9GHz 3MB cache | DIMENSIONS & WEIGHT 11.5"(L) x 11.9"(W) x 2.9"(H) 7.9 lbs. (8.2 lbs. with optional media bay 2nd battery) |
| STORAGE & MEMORY | ■ 4GB-16GB SDRAM [DDR3L-1600MHz] ^{3,4} ■ Shock-mounted flex-connect hard drive with quick-release - 500GB 7200rpm with heater* - Optional 128GB, 256GB and 512GB solid state drives (SSD) with heaters* | INTEGRATED OPTIONS? 40 LTE multi carrier mobile broadband with satellite GPS 6PS (u-blox NEO-M8N) Webcam 2nd LAN or FireWire |
| DISPLAY | 13.1" XGA sunlight-viewable touchscreen LED 1024 x 768 Panasonic CircuLumin™ technology 2-1200 nit Circular polarizer Anti-reflective and anti-glare screen treatments HD Graphics 5500, max. 1785MB shared VRAM with Windows 8.1 32-bit³ External video support up to 1280 x 1024 at 16.7 million colors | Insertable SmartCard reader Fingerprint reader Media bay 2nd battery HDD and battery lock 128GB, 256GB and 512GB solid state drives (SSD) with heaters SELECT ACCESSORIES? |
| AUDIO | Concealed mode [configurable] Intel® high-definition audio compliant Integrated front-facing speaker Keyboard volume and mute controls | AC Adapter (3-prong) |
| KEYBOARD & INPUT | Touchscreen Integrated stylus holder 87-key with dedicated Windows® key Backlit keyboard - Sealed rubber or plastic emissive Pressure-sensitive touchpad with vertical scrolling support | ToughMate ComUniversal TBCCOMUNV-P |
| MULTIMEDIA BAY | Optional DVD Super MULTI Drive or Media Bay 2nd battery | - 8GB DDR3 |
| EXPANSION SLOTS | PC card type II x 1 SD card (SDXC) ExpressCard/54 x 1 | Vehicle Docks (no pass-through) Panasonic Gamber-Johnson with LIND power supply Havis with LIND power supply Vehicle Docks (single pass-through) |
| INTERFACE | Docking connector | Vehicle Docks (single pass-through) Panasonic Gamber-Johnson with LIND power supply Havis with LIND power supply Vehicle Docks (dual pass-through) Panasonic Gamber-Johnson with LIND power supply Panasonic Gamber-Johnson with LIND power supply Havis with LIND power supply Touchscreen Large Stylus with Tether Hole Tether Institute of the product of the produ |
| WIRELESS | Optional integrated 46 LTE multi carrier mobile broadband with satellite GPS Optional GPS (u-blox NEO-M8N) Intel® Dual Band Wireless-AC7265 802.11a/b/g/n/ac Bluetooth® v4.0 + EDR (Class 1) Security Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES User-selectable antenna pass-through (dual standard, single optional) Slide on/off switch | Please consult your reseller or Panasonic representative before purchasing. Tested by national independent third party lab following MIL-STD-8106 Method 516.6 Procedure IV for tratest and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65. An Intel Core IV processor is also available. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. W 64-bit max. VRAM is 1696MB with 468 of memory. 118.8 a. 1000 n00 n000 how. |

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41GB = 1.000.000.000 bytes.

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**Pattary performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from Mobile-Mark 2007 running Windows 7 Professional.

Requires software and activation to enable theft protection.

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

*Repuires software and activation to enable theft protection.**







POWER SUPPLY

POWER MANAGEMENT



Battery operation: 18 hours (27 hours with optional media bay 2nd battery)⁵
 Long life Li-lon battery pack [10.65V, typical 8550mAh, minimum 8100mAh]
 Battery charge time: 3.5 hours on/off (7 hours with optional media bay 2nd battery)⁵
 AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

Suspend/Resume Function, Hibernation, Standby, ACPI BIOST