



Panasonic recommends Windows.

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
- Industry leading driver packages for ease of deployment and support

MIL-STD-810G

MIL-STD-461F

IP65

ANSI HAZ LOC

6-FOOT DROP RATING

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 16 years of consistent docking compatibility, and you have a computer that will go the distance with you anytime, anywhere.

TOUGHBOOK 31

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SOFTWARE	<ul style="list-style-type: none">■ Windows® 10 Pro (available Windows 7 Professional downgrade option)■ Panasonic Utilities (including Dashboard), Recovery Partition■ Enterprise ready driver packages including CAB files and one-click driver bundles																										
DURABILITY	<ul style="list-style-type: none">■ 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-461F certified¹■ IP65 certified sealed all-weather design¹■ Optional class I division 2, groups ABCD certified model■ Full magnesium alloy case with handle■ Storage drive heater■ Shock-mounted caged storage drive■ Removable quick-release battery and storage drive■ Field upgradeable 4G LTE■ Reinforced locking port covers■ Pre-installed replaceable screen film for LCD protection																										
CPU²	<ul style="list-style-type: none">■ Intel® Core™ i5-5300U vPro™ Processor<ul style="list-style-type: none">– 2.3GHz with Turbo Boost up to 2.9GHz– 3MB cache																										
STORAGE & MEMORY	<ul style="list-style-type: none">■ 4GB, 8GB or 16GB SDRAM (DDR3L-1600MHz)³■ Shock-mounted storage drive with quick-release<ul style="list-style-type: none">– 500GB 7200rpm HDD with heater³– Optional 256/512GB SSD with heaters³– Optional OPAL encrypted SSD with heater																										
DISPLAY	<ul style="list-style-type: none">■ 13.1" XGA 1024 x 768<ul style="list-style-type: none">– Resistive touchscreen■ 2-1200 nit■ Panasonic CircuLumin™ technology■ Anti-reflective (AR), anti-glare (AG), and circular polarizer■ HD Graphics 5500■ Triple monitor support■ Concealed mode (configurable)																										
AUDIO	<ul style="list-style-type: none">■ Intel® High Definition Audio compliant■ Integrated speaker■ Keyboard volume and mute controls																										
KEYBOARD & INPUT	<ul style="list-style-type: none">■ Stylus pen with integrated stylus holder, tether and cleaning cloth■ 87-key with dedicated Windows® key■ Emissive backlit keyboard (with optional sealed rubber backlit keyboard)■ Pressure-sensitive touchpad with vertical scrolling																										
MULTIMEDIA BAY	<ul style="list-style-type: none">■ Optional DVD Super MULTI Drive or Media Bay 2nd battery																										
INTERFACE & EXPANSION	<table><tr><td>■ Docking connector</td><td>80-pin</td></tr><tr><td>■ USB 3.0 (x 1), USB 2.0 (x 3)</td><td>Type A</td></tr><tr><td>■ SD card (SDXC)</td><td>UHS-I</td></tr><tr><td>■ Optional IEEE 1394a (FireWire)</td><td>4-pin</td></tr><tr><td>■ HDMI</td><td>Type A</td></tr><tr><td>■ VGA</td><td>D-sub 15-pin</td></tr><tr><td>■ 10/100/1000 Ethernet</td><td>RJ-45</td></tr><tr><td>■ Optional 10/100/1000 2nd LAN (Ethernet)</td><td>RJ-45</td></tr><tr><td>■ Headphones/speaker</td><td>Mini-jack stereo</td></tr><tr><td>■ Microphone</td><td>Mini-jack stereo</td></tr><tr><td>■ Serial</td><td>D-sub 9-pin</td></tr><tr><td>■ ExpressCard/54</td><td>34mm or 54mm</td></tr><tr><td>■ PC Card</td><td>Type II</td></tr></table>	■ Docking connector	80-pin	■ USB 3.0 (x 1), USB 2.0 (x 3)	Type A	■ SD card (SDXC)	UHS-I	■ Optional IEEE 1394a (FireWire)	4-pin	■ HDMI	Type A	■ VGA	D-sub 15-pin	■ 10/100/1000 Ethernet	RJ-45	■ Optional 10/100/1000 2nd LAN (Ethernet)	RJ-45	■ Headphones/speaker	Mini-jack stereo	■ Microphone	Mini-jack stereo	■ Serial	D-sub 9-pin	■ ExpressCard/54	34mm or 54mm	■ PC Card	Type II
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WIRELESS	<ul style="list-style-type: none">■ Optional 4G LTE multi carrier mobile broadband with satellite GPS■ Optional GPS (u-blox NEO-M8N)■ User-selectable antenna pass-through (dual standard, single optional)■ Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac■ Bluetooth® v4.0 + EDR (Class 1)■ Security<ul style="list-style-type: none">– Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP– Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES■ Slide on/off switch																										
POWER	<ul style="list-style-type: none">■ Long life Li-Ion battery pack (10.65V, typical 8550mAh, min. 8100mAh)■ Battery operation: 18 hours (27 hours with opt. media bay 2nd battery)⁴■ Battery charging time: 3.5 hours on/off (7 hours with opt. media bay 2nd battery)⁴■ AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply																										
POWER MANAGEMENT	<ul style="list-style-type: none">■ Suspend/Resume Function, Hibernation, Standby																										

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2⁵
- Persistence® technology by Absolute embedded in BIOS⁴
- Optional fingerprint reader
- Optional insertable SmartCard reader

WARRANTY

- 3-year limited warranty, parts and labor

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)

HAZARDOUS LOCATION CERTIFICATIONS

- ANSI/ISA 2.12.01-2013
 - Optional class I division 2, groups ABCD certified model

INTEGRATED OPTIONS⁷

- 4G LTE multi carrier mobile broadband with satellite GPS
- Dedicated GPS (u-blox NEO-M8N)
- 720p webcam and mic
- Sealed rubber backlit keyboard (emissive backlit standard)
- 2nd LAN or FireWire
- Insertable SmartCard reader
- Fingerprint reader
- DVD drive or Media bay 2nd battery
- HDD and battery lock
- 256/512GB SSD with heaters
 - OPAL encrypted SSD with heater

SELECT ACCESSORIES⁷

- | | |
|--|---|
| ■ AC Adapter 100W (3-prong) | CF-AA5713AM |
| ■ Long Life Battery Pack | CF-VZSU46AU |
| ■ Media Bay 2nd Battery | CF-VZSU1431U |
| ■ Battery Charger | CF-VCBT82W |
| ■ LIND 3-Bay Battery Charger | PACH329-1857-P |
| ■ LIND Car Charger 120W | CF-LNDDC120 |
| ■ LIND Solar Charge System | PASC1580-4464 |
| ■ ToughMate ComUniversal Carrying Case (large capacity) | TBCCOMUNV-P |
| ■ ToughMate Backpack | TBCBPK-P |
| ■ ToughMate Sling 31 Case | TBC31CASE-P |
| ■ ToughMate Shoulder Strap | TBCDLXSSKIT-P |
| ■ DVD Super MULTI Drive | CF-VDM312U |
| ■ Memory Card 4GB | CF-WMBA1304G |
| ■ Memory Card 8GB | CF-WMBA1308G |
| ■ Desktop Dock | CF-VEB311U |
| ■ Vehicle Docks (no pass-through) <ul style="list-style-type: none">– Panasonic– Gamber-Johnson with LIND power supply– Havis with LIND power supply | CF-WEB301M
7160-0318-04-P
CF-H-PAN-112-P |
| ■ Vehicle Docks (single pass-through) <ul style="list-style-type: none">– Panasonic– Gamber-Johnson with LIND power supply– Havis with LIND power supply | CF-WEB301MA
7160-0318-05-P
CF-H-PAN-112-1-P |
| ■ Vehicle Docks (dual pass-through) <ul style="list-style-type: none">– Panasonic– Gamber-Johnson with LIND power supply– Havis with LIND power supply | CF-WEB301MB
7160-0318-06-P
CF-H-PAN-112-2-P |
| ■ Cradlepoint Router <ul style="list-style-type: none">– Verizon– AT&T | CP-IBR1100LPE-VZ
CP-IBR1100LPE-AT |
| ■ Touchscreen Stylus | CF-VNP009U |
| ■ Tether | CF-VNT002U |
| ■ 13.1" LCD Protector Film | CF-VPF15U |

Please consult your reseller or Panasonic representative before purchasing.

¹Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

²An Intel Core i7 processor is also available.

³1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

⁴Battery 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 MobileMark 2007.

⁵TPM 2.0 available upon request – please contact your reseller or Panasonic representative.

⁶Requires software and activation to enable theft protection.

⁷Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.



1.800.662.3537

us.panasonic.com/toughbook/31

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TOUGHBOOK®