



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
- Industry leading driver packages for ease of deployment and support
- Available TPM 2.0 Security¹

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 Intel® Core™ i5 processor packs a punch 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 64-bit 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]² MIL-STD-461F certified² IP65 certified sealed all-weather design² Optional hazardous location 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 Reinforced locking port covers Preinstalled replaceable screen film for LCD protection | | | | | | | | | | | | | | | | | | | | | | | | |
| CPU³ | <ul style="list-style-type: none"> Intel® Core™ i5-5300U vPro™ Processor – 2.3GHz with Turbo Boost up to 2.9GHz, 3MB cache | | | | | | | | | | | | | | | | | | | | | | | | |
| STORAGE & MEMORY | <ul style="list-style-type: none"> Upgradeable Memory (RAM) - 2 slots – 4GB expandable to 8GB or 16GB total of SDRAM (DDR3L-1600MT/s)⁴ Shock-mounted storage drive with quick-release – 500GB 7200rpm HDD with heater⁴ – Optional 256/512GB SSD with heaters⁴ – Optional OPAL encrypted SSD with heater | | | | | | | | | | | | | | | | | | | | | | | | |
| DISPLAY | <ul style="list-style-type: none"> 13.1" XGA 1024 x 768 – 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 4 adjustable levels (optional 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 border="0"> <tbody> <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>■ Audio In</td> <td>3.5mm Mini-jack stereo</td> </tr> <tr> <td>■ Audio Out</td> <td>3.5mm Mini-jack stereo</td> </tr> <tr> <td>■ Serial</td> <td>D-sub 9-pin</td> </tr> <tr> <td>■ Mini-SIM</td> <td>2FF</td> </tr> </tbody> </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 | ■ Audio In | 3.5mm Mini-jack stereo | ■ Audio Out | 3.5mm Mini-jack stereo | ■ Serial | D-sub 9-pin | ■ Mini-SIM | 2FF |
| ■ 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| ■ Audio In | 3.5mm Mini-jack stereo | | | | | | | | | | | | | | | | | | | | | | | | |
| ■ Audio Out | 3.5mm Mini-jack stereo | | | | | | | | | | | | | | | | | | | | | | | | |
| ■ Serial | D-sub 9-pin | | | | | | | | | | | | | | | | | | | | | | | | |
| ■ Mini-SIM | 2FF | | | | | | | | | | | | | | | | | | | | | | | | |
| WIRELESS | <ul style="list-style-type: none"> Optional dedicated GPS (u-blox NEO-M8N) User-selectable antenna pass-through (dual standard, single optional) Intel® Dual Band Wireless-AC 7265 Wi-Fi 802.11a/b/g/n/ac Bluetooth® v4.0 + EDR (Class 1) Slide on/off switch | | | | | | | | | | | | | | | | | | | | | | | | |
| POWER | <ul style="list-style-type: none"> Standard long life Li-Ion battery pack (10.65V, typical 8550mAh, min. 8100mAh) Battery operation: 18 hours (27 hours with opt. media bay 2nd battery)⁵ Battery charging time: 3.5 hours on/off (7 hours with opt. media bay 2nd battery)⁵ AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply | | | | | | | | | | | | | | | | | | | | | | | | |

SECURITY FEATURES

- TPM v1.2 (TPM v2.0 available)¹
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS⁴
- Kensington cable lock slot
- Optional fingerprint reader
- Optional insertable SmartCard CAC 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

- Dedicated GPS (u-blox NEO-M8N)
- 2nd LAN or FireWire
- Insertable SmartCard CAC reader
- Fingerprint reader
- Sealed rubber backlit keyboard
- DVD drive or Media bay 2nd battery

SELECT ACCESSORIES⁷

- | | |
|---|------------------|
| ■ AC Adapter 100W (3-prong) | CF-AA5713AM |
| ■ Standard Long Life Battery Pack | CF-VZSU46AU |
| ■ Media Bay 2nd Battery | CF-VZSU1431U |
| ■ Battery Charger | CF-VCBTB2W |
| ■ 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 Sting 31 Case | TBC31CASE-P |
| ■ ToughMate Shoulder Strap | TBCDLXSSKIT-P |
| ■ DVD Super MULTI Drive | CF-VDM312U |
| ■ Memory Card 4GB | CF-BAZ1504 |
| ■ Memory Card 8GB | CF-BAZ1608 |
| ■ Desktop Dock | CF-VEB311U |
| ■ Vehicle Docks (no pass-through) | |
| – Gamber-Johnson with LIND power supply | 7160-0318-04-P |
| – Havis with LIND power supply | CF-H-PAN-112-P |
| ■ Vehicle Docks (single pass-through) | |
| – Gamber-Johnson with LIND power supply | 7160-0318-05-P |
| – Havis with LIND power supply | CF-H-PAN-112-1-P |
| ■ Vehicle Docks (dual pass-through) | |
| – Gamber-Johnson with LIND power supply | 7160-0318-06-P |
| – Havis with LIND power supply | CF-H-PAN-112-2-P |
| ■ Touchscreen Stylus | CF-VNP009U |
| ■ Tether | CF-VNT002U |
| ■ 13.1" LCD Protector Film | CF-VPF15U |

Please consult your reseller or Panasonic representative before purchasing.

¹TPM 1.2 ships by default, but can run TPM2.0 – see below Microsoft link for details: support.microsoft.com/en-us/help/2920188/update-to-add-support-for-tpm-2.0-in-windows-7-and-windows-server-2008-r2

²Tested 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.

³An Intel Core i7 processor is also available.

⁴1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

⁵Battery 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 at 60 nit.

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

na.panasonic.com/us/toughbook31

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TOUGHBOOK®