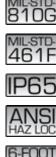
Panasonic



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



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 plus16 years of consistent docking compatibility, and you have a computer that will go the distance with you anytime, anywhere.

TOUGHBOOK 31

Panasonic recommends Windows.

SOFTWARE	 Windows® 10 Pro 64-bit Panasonic Utilities (including Dashboard), Recovery Partition
	 Enterprise ready driver packages including 	
DURABILITY	 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 	
CPU ³	■ Intel® Core™ i5-5300U vPro™ Processor - 2.3GHz with Turbo Boost up to 2.9GHz, 3MB cache	
STORAGE & MEMORY	 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	 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	 Intel® High Definition Audio compliant Integrated speaker Keyboard volume and mute controls 	
KEYBOARD & INPUT	 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	■ Optional DVD Super MULTI Drive or Media Bay 2nd battery	
INTERFACE & EXPANSION	 Docking connector USB 3.0 (x 1), USB 2.0 (x 3) SD card (SDXC) Optional IEEE 1394a (FireWire) HDMI VGA 10/100/1000 Ethernet Optional 10/100/1000 2nd LAN (Ethernet) Audio In Audio Out Serial Mini-SIM 	80-pin Type A UHS-1 4-pin Type A D-sub 15-pin RJ-45 3.5mm Mini-jack stereo D-sub 9-pin 2FF
WIRELESS	 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	 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 BIOS⁶
- Kensington cable lock sint
- 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 OPTIONS

- 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 ACCESSORIES

- AC Adapter 100W (3-prong) Standard Long Life Battery Pack
- Media Bay 2nd BatteryBattery Charger
- LIND 3-Bay Battery Charger
- LIND Car Charger 120WLIND Solar Charge System
- ToughMate ComUniversal
- Carrying Case (large capacity) ToughMate Backpack
- ToughMate Sling 31 Case
 ToughMate Shoulder Strap
 DVD Super MULTI Drive
- Memory Card 4GB
- Memory Card 8GBDesktop Dock
- Vehicle Docks (no pass-through)
- Gamber-Johnson with LIND power supply
 Havis with LIND power supply
- Vehicle Docks (single pass-through)
- Gamber-Johnson with LIND power supply
- Havis with LIND power supply
- Vehicle Docks (dual pass-through)
- Gamber-Johnson with LIND power supply - Havis with LIND power supply
- Touchscreen Stylus
- Tether
- 13.1" LCD Protector Film

CF-AA5713AM

- CF-VZSU46AU CF-V7SU1431U CF-VCBTB2W
- PACH329-1857-P CF-LNDDC120 PASC1580-4464
- TBCCOMUNV-P TBCBPK-P
- TBC31CASE-P TBCDI XSSKIT-P
- CF-VDM312U CF-BAZ1504
- CF-BA71608 CF-VEB311U
- 7160-0318-04-P CF-H-PAN-112-P
- 7160-0318-05-P CF-H-PAN-112-1-P
- 7160-0318-06-P CF-H-PAN-112-2-P
- CF-VNPnn9U CF-VNT002U 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:

 4 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration

Battery 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







