

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
- Optional 4G LTE multi carrier mobile broadband with satellite GPS
- 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.

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TOUGHBOOK

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COSTINUES					
SOFTWARE	 Windows® 10 Pro lavailable Windows 7 Professional downgrade option] Panasonic Utilities (including Dashboard), Recovery Partition Enterprise ready driver packages including CAB files and one-click driver bundles 		SECURITY FEATURES TPM v1.2 (TPM v2.0 available)* NIST BIOS compliant Persistence* technology by Absolute embedded in BIOS* Kensington cable lock slot Optional lingerprint reader Optional insertable SmartCard CAC reader WARRANTY 3-year limited warranty, parts and labor		
DURABILITY	 MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmospherel² MIL-STD-461 Feartified² IP65 certified sealed all-weather design² Optional hazardous location class I division 2, groups ABCD certified model Full magnesium altoy 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 				
			DIMENSIONS & WEIGHT ■ 11.5*IL.l x 11.9*IWl x 2.9*IH] ■ 7.9 lbs. (8.2 lbs. with optional media bay 2nd battery)		
CPU ³	■ Intel® Core" i5-5300U vPro" Processor - 2.3GHz with Turbo Boost up to 2.9GHz, 3MB cache		HAZARDOUS LOCATION CERTIFICATIONS ■ ANSI/ISA 2.12.01-2013 - Optional class I division 2, groups ABCD certified model		
STORAGE & MEMORY	 Upgradeable Memory (RAM) - 2 slots 46B expandable to 86B or 166B total of SDRAM (DDR3L-1600MT/s)⁴ Shock-mounted storage drive with quick-release 500GB 7200rpm HDD with heater⁴ Optional 256/ST26B SSD with heaters⁵ Optional 0PAL encrypted SSD with heater 		INTEGRATED OPTIONS? 4 G LTE multi carrier mobile broadband with satellite GPS Dedicated GPS Iu-blox NEO-MBN) 2 nd LAM or FireWire Insertable SmartCard CAC reader Fingerprint reader Sealed rubber backlit keyboard [emissive backlit standard]		
DISPLAY	■ 13.1* XGA 1024 x 768 - Resistive touchscreen		DVD drive or Media bay 2nd battery		
	 2-1200 nit Panasonic CircuLumin™ technology Anti-reflective [AR], anti-glare [AG], and c HD Graphics 5500 Triple monitor support Concealed mode [configurable] 	ircular polarizer	SELECT ACCESSORIES ² AC Adapter (100W (3-prong) Standard Long Life Battery Pack Media Bay 2nd Battery Battery Charger LIND 3-Bay Battery Charger	CF-AA5713AM CF-VZSU46AU CF-VZSU1431U CF-VCBTB2W PACH329-1857-P	
AUDIO	 Intel® High Definition Audio compliant Integrated speaker Keyboard volume and mute controls 		LIND Car Charger 120W LIND Solar Charge System ToughMate ComUniversal Carrying Case (large capacity)	CF-LNDDC120 PASC1580-4464 TBCCOMUNV-P	
KEYBOARD & INPUT	 Stylus pen with integrated stylus holder, t 87-key with dedicated Windows* key Emissive backlit keyboard with 4 adjustab Pressure-sensitive touchpad with vertical 	le levels (optional sealed rubber backlit keyboard)	ToughMate Backpack ToughMate Sling 31 Case ToughMate Shoulder Strap DVD Super MULTI Drive Memory Card 4GB	TBCBPK-P TBC31CASE-P TBCDLXSSKIT-P CF-VDM312U CF-BAZ1504	
MULTIMEDIA BAY	 Optional DVD Super MULTI Drive or Media 	a Bay 2nd battery	Memory Card 8GBDesktop Dock	CF-BAZ1608 CF-VEB311U	
INTERFACE & EXPANSION	 Docking connector USB 3.0 (x 1), USB 2.0 (x 3) SD card ISDXC) Optional IEEE 1394a [FireWire] 	80-pin Type A UHS-I 4-pin	 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 	7160-0318-04-P CF-H-PAN-112-P 7160-0318-05-P	
	HDMI VGA 10/100/1000 Ethernet Optional 10/100/1000 2nd LAN (Ethernet) Audio In Audio Out	3.5mm Mini-jack stereo 3.5mm Mini-jack stereo	- Havis with LIND power supply Vehicle Docks (dual pass-through) - Gamber-Johnson with LIND power supply - Havis with LIND power supply Cradlepoint Router - Verizon LTE	CF-H-PAN-112-1-P 7160-0318-06-P CF-H-PAN-112-2-P CP-IBR1100LPE-VZ	
WIRELESS	Serial Mini-SIM Optional / CLTE multi-corrier mebile box	D-sub 9-pin 2FF	 Multi Carrier LTE-Advanced Multi Carrier LTE-Advanced (compact size) Touchscreen Stylus 	CP-IBR1100LP6-NA CP-IBR900LP6-NA CF-VNP009U	
WINCELOS	 Optional 46 LTE multi carrier mobile broadband with satellite GPS Optional dedicated be95 Lu-blox NEO-M8NI User-selectable antenna pass-through Idual standard, single optionall Intel® Dual Band Wireless-AC 7265 Wi-Fi 802.11a/b/g/n/ac Bluetooth® v4.0 + EDR (Class 1) 		■ Tether ■ 13.1" LCD Protector Film	CF-VNT002U CF-VPF15U	
	■ Stide on/off switch	■ Slide on/off switch		Please consult your reseller or Panasonic representative before purchasing.	
POWER	 Standard long life Li-Ion battery pack [10. Battery operation: 18 hours [27 hours with Battery charging time: 3.5 hours on/off [7 AC Adapter: AC 100V-240V 50/60Hz, auto 	n opt. media bay 2nd battery) ⁵ hours with opt. media bay 2nd battery) ⁵	ITPM 1.2 ships by default, but can run TPM.2.0 – see below Microsoft link for details: support microsoft con/en-sub-leg/29/08/8/pddet-to-add-support-for-pom-2.6-in-aindows-7-and-windows-sener- "Tested by national independent third party lab following MIL-STD-8106 Method 516.6 Procedure N for transi- test and IEC 06/29 Sections 13.4, 13.6.2.1 a.2.5 and 14.3 for IP95. An Intel Care if processor is also available. *16B = 1.000,000.000 bytes. Total usable memory will be less depending upon actual system configuration.		

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*108 = 1,000,000,000 byes, Total usable memory will be less depending upon actual system configuration.
*Battery performance features such as charge time and tide span can vary according to the conditions under which the computer and battery are used. Battery operation and retarge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences.
*Battery sesting results from MobileArk 2007 at 60 nit.
*Requires software and activation to enable their protection.

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









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