



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)⁴
- Optional 4G LTE Multi Carrier Mobile Broadband with Satellite GPS

IP65

**6-FOOT
DROP RATING**

**MIL-STD-
810G**

POWERFUL, RUGGED AND WIRELESS.

Panasonic presents the Toughbook 31, the reliable laptop offering one of the world's most rugged designs. 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 hours⁴, or 27 hours with optional media bay 2nd battery⁴. 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.

TOUGHBOOK 31



Panasonic recommends Windows 10 Pro.

SOFTWARE	<ul style="list-style-type: none"> Windows 10 Pro 64 bit Panasonic Utilities (including Dashboard), Recovery Partition 		
DURABILITY	<ul style="list-style-type: none"> MIL-STD-810G certified (6' drop, shock, vibration, sand, dust, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)¹ MIL-STD-461F certified IP65 certified sealed all-weather design¹ Hard drive heater Full magnesium alloy case with handle Shock-mounted flex-connect hard drive with quick-release Reinforced locking port covers Pre-installed replaceable screen film for touchscreen protection 		
CPU	<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-16GB SDRAM (DDR3L-1600MHz)^{2,3} Shock-mounted flex-connect hard drive with quick-release <ul style="list-style-type: none"> - 500GB 7200rpm with heater³ - Optional 128GB, 256GB and 512GB solid state drives (SSD) with heaters³ 		
DISPLAY	<ul style="list-style-type: none"> 13.1" XGA sunlight-viewable touchscreen LED 1024 x 768 <ul style="list-style-type: none"> - Panasonic CircuLumin™ technology - 2-1200 nit - Circular polarizer - Anti-reflective and anti-glare screen treatments HD Graphics 5500, max. 1785MB shared VRAM with Windows 10 Pro 64-bit² External video support up to 1280 x 1024 at 16.7 million colors Concealed mode (configurable) 		
AUDIO	<ul style="list-style-type: none"> Intel® high-definition audio compliant Integrated speakers Keyboard volume and mute controls 		
KEYBOARD & INPUT	<ul style="list-style-type: none"> Touchscreen Integrated stylus holder 87-key with dedicated Windows® key Optional backlit keyboard <ul style="list-style-type: none"> - Plastic emissive Pressure-sensitive touchpad with vertical scrolling support 		
MULTIMEDIA BAY	<ul style="list-style-type: none"> Optional DVD Super MULTI Drive or Media Bay 2nd battery 		
EXPANSION SLOTS	<ul style="list-style-type: none"> PC card type II x 1 SD card (SDXC) ExpressCard/54 x 1 		
INTERFACE	<table border="0"> <tr> <td> <ul style="list-style-type: none"> Docking connector HDMI VGA Headphones/speaker Microphone/line in Serial Ext. antenna conn. USB 3.0 (x 1), USB 2.0 (x 3) Optional IEEE 1394a (FireWire) 10/100/1000 Ethernet Optional 10/100/1000 2nd LAN (Ethernet) </td> <td> <ul style="list-style-type: none"> 80-pin Type A D-sub 15-pin Mini-jack stereo Mini-jack stereo D-sub 9-pin 50 ohm coaxial Type A 4-pin RJ-45 RJ-45 </td> </tr> </table>	<ul style="list-style-type: none"> Docking connector HDMI VGA Headphones/speaker Microphone/line in Serial Ext. antenna conn. USB 3.0 (x 1), USB 2.0 (x 3) Optional IEEE 1394a (FireWire) 10/100/1000 Ethernet Optional 10/100/1000 2nd LAN (Ethernet) 	<ul style="list-style-type: none"> 80-pin Type A D-sub 15-pin Mini-jack stereo Mini-jack stereo D-sub 9-pin 50 ohm coaxial Type A 4-pin RJ-45 RJ-45
<ul style="list-style-type: none"> Docking connector HDMI VGA Headphones/speaker Microphone/line in Serial Ext. antenna conn. USB 3.0 (x 1), USB 2.0 (x 3) Optional IEEE 1394a (FireWire) 10/100/1000 Ethernet Optional 10/100/1000 2nd LAN (Ethernet) 	<ul style="list-style-type: none"> 80-pin Type A D-sub 15-pin Mini-jack stereo Mini-jack stereo D-sub 9-pin 50 ohm coaxial Type A 4-pin RJ-45 RJ-45 		
WIRELESS	<ul style="list-style-type: none"> Optional integrated 4G 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 <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 User-selectable antenna pass-through (dual standard, single optional) Slide on/off switch 		
POWER SUPPLY	<ul style="list-style-type: none"> Battery operation: 18 hours (27 hours with optional media bay 2nd battery)⁴ Long life Li-Ion battery pack (10.65V, typical 8550mAh, minimum 8100mAh) Battery charge time: 3.5 hours on/off (7 hours with optional 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, ACPI BIOS 		

SECURITY FEATURES	<ul style="list-style-type: none"> Password Security: Supervisor, User, Hard Disk Lock Kensington cable lock slot Trusted platform module (TPM) security chip v.1.2 Computrace® theft protection agent in BIOS⁵ Intel® Anti-Theft Technology Optional fingerprint reader Optional insertable SmartCard reader 		
WARRANTY	<ul style="list-style-type: none"> 3-year limited warranty, parts and labor 		
DIMENSIONS & WEIGHT	<ul style="list-style-type: none"> 11.5"(L) x 11.9"(W) x 2.9"(H) 7.9 lbs. (8.2 lbs. with optional media bay 2nd battery) 		
INTEGRATED OPTIONS⁶	<ul style="list-style-type: none"> 4G LTE multi carrier mobile broadband with satellite GPS GPS (u-blox NEO-M8N) Webcam Optional backlit keyboard emissive 2nd LAN or FireWire Insertable SmartCard reader Fingerprint reader Media bay 2nd battery HDD and battery lock 128GB, 256GB and 512GB solid state drives (SSD) with heaters 		
SELECT ACCESSORIES⁶	<table border="0"> <tr> <td> <ul style="list-style-type: none"> AC Adapter (3-prong) Long Life Battery Pack Media Bay 2nd Battery Battery Charger DVD Super MULTI Drive Memory Cards <ul style="list-style-type: none"> - 4GB DDR3 - 8GB DDR3 Desktop Dock Touchscreen Large Stylus with Tether Hole Tether 13.1" LCD Protector Film </td> <td> <ul style="list-style-type: none"> CF-AA5713AM CF-VZSU46AU CF-VZSU1431U CF-VCBTB2W CF-VDM312U CF-WMBA1304G CF-KBAS08GM CF-VEB311U CF-VNP009U CF-VNT002U CF-VPF15U </td> </tr> </table>	<ul style="list-style-type: none"> AC Adapter (3-prong) Long Life Battery Pack Media Bay 2nd Battery Battery Charger DVD Super MULTI Drive Memory Cards <ul style="list-style-type: none"> - 4GB DDR3 - 8GB DDR3 Desktop Dock Touchscreen Large Stylus with Tether Hole Tether 13.1" LCD Protector Film 	<ul style="list-style-type: none"> CF-AA5713AM CF-VZSU46AU CF-VZSU1431U CF-VCBTB2W CF-VDM312U CF-WMBA1304G CF-KBAS08GM CF-VEB311U CF-VNP009U CF-VNT002U CF-VPF15U
<ul style="list-style-type: none"> AC Adapter (3-prong) Long Life Battery Pack Media Bay 2nd Battery Battery Charger DVD Super MULTI Drive Memory Cards <ul style="list-style-type: none"> - 4GB DDR3 - 8GB DDR3 Desktop Dock Touchscreen Large Stylus with Tether Hole Tether 13.1" LCD Protector Film 	<ul style="list-style-type: none"> CF-AA5713AM CF-VZSU46AU CF-VZSU1431U CF-VCBTB2W CF-VDM312U CF-WMBA1304G CF-KBAS08GM CF-VEB311U CF-VNP009U CF-VNT002U CF-VPF15U 		

Please consult your reseller or Panasonic representative before purchasing.

¹ Tested 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.

² The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Windows 10 Pro 64-bit max. VRAM is 1696MB with 4GB of memory

³ 1GB = 1,000,000,000 bytes.

⁴ 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 running Windows 7 Professional.

⁵ Requires software and activation to enable theft protection.

⁶ Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.



1.866.413.3099
business.panasonic.ca

