Panasonic recommends Windows.

TOUGHBOOK 20

- 10.1" fully rugged PC for use as a laptop or tablet
- Sunlight-viewable display works with or without gloves
- Available with Windows 10 Pro or Windows 7 Professional downgrade
- Infrared webcam on i5-7Y57 models
- Bridge battery enables hot-swap battery replacement for continuous use
- Integrated 2nd battery, CAC SmartCard, fingerprint, magstripe, barcode options and more
- TPM 2.0 Security

THE WORLD’S FIRST FULLY RUGGED DETACHABLE LAPTOP.

The Toughbook 20 is the first fully rugged detachable PC with a removable keyboard that quickly transforms from a laptop into a fully functioning tablet with just one hand. At only 3.9 pounds, it’s good on the go with a clever built-in handle that also functions as a kickstand, a bridge battery that allows hot swappable battery replacement while running without disruption and the broadest range of ports and integrated options in its class. The Toughbook 20 display can be used with or without gloves and its sunlight-viewable 800 nit IPS display with direct bonding enables wider viewing angles and richer colors.

1.800.662.3537
us.panasonic.com/toughbook/20
Panasonic recommends Windows.

SOFTWARE

- Panasonic Utilities (including Dashboard), Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

DURABILITY

- MIL-STD-810G certified (6” drop - 5” tablet only, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, solar radiation, salt fog, humidity, explosive atmosphere)
- MIL-STD-461F certified
- IP65 certified sealed all-weather fanless design
- Optional hazardous location class 1 division 2, groups ABCD certified model
- Magnesium alloy chassis encased with ABS and elastomer edges
- Built-in dual purpose handle & kickstand
- Solid state drive heater
- Removable battery
- Optional rotating hand strap
- Reinforced locking port covers
- Raised bezel for LCD impact protection
- Preinstalled replaceable screen film for LCD protection

OPERATING SYSTEM

- Windows® 10 Pro 64-bit CPU
  - Intel® Core™ i5-7Y57 vPro™ processor (7th Gen CPU) 1.2GHz with Turbo Boost up to 3.7GHz, 4MB cache
- Graphics
  - Intel® HD Graphics 615
- Memory (RAM) - factory installed
  - 8GB or 16GB (DDR3L-1866MT/s)3
- Storage
  - Storage Drive Shock-mounted with Heater (quick-release)
  - 256GB SSD
  - Optional 512GB SSD
  - Optional OPAL encrypted SSD

DISPLAY

- 11.6” WXGA 1280 x 800
- 10-point capacitive gloved multi touch (available only on m5-6Y57 models)
- 10-point capacitive gloved multi touch + digitalizer
- 3-AAA 8-cell
- IPS display with direct bonding
- Anti-reflective (AR) and anti-glare (AG) screen treatments
- 4 monitor support
- Concealed mode (configurable)

AUDIO

- Integrated dual array microphone
- Intel® High Definition Audio compliant
- Integrated speaker
- On-screen and button volume and mute controls

CAMERAS

- 8MP rear camera with autofocus and triple LED flash (optional on m5-6Y57 models)
- 1080p webcam with dual array mic and camera on/off indicator
- Infrared with Windows Hello support (5-7Y57 models)
- BMP rear camera with autofocus and triple LED flash (optional on m5-6Y57 models)

KEYBOARD & INPUT

- Waterproof IP65 stylus pen with integrated stylus holder, tethering and cleaning cloth
- Supports glove mode and rain mode
- 7 tablet buttons (5 user-definable 4/42 buttons)
- On-screen QWERTY keyboard
- 8-key with dedicated Windows® key
- Emissive white backlit keyboard with 4 adjustable levels
- Pressure-sensitive touchscreen with multi touch

INTERFACE & EXPANSION

- On the tablet:
  - USB 3.0 x1 (optional 2nd USB 2.0/off)
  - Type A USB 3.0 (is 1.5A)
  - MiniSD/SD
  - HDMI
  - 10/100/1000 Ethernet
  - Optional Serial (True)4,5 D-sub 9-pin
  - Audio In/Out
  - SIM
- On the keyboard:
  - Docking Connector
  - USB 3.0 x2, USB 2.0 x1
  - SDXC
  - HDMI
  - VGA
  - 10/100/1000 Ethernet
  - Serial (USB)

WIRELESS

- Optional 4G LTE-A multi carrier mobile broadband with satellite GPS [LTE on m5-6Y57 models]*3
  - Certificed with Verizon, AT&T, Sprint and P.18013
- Optional dedicated GPS (u-blox NEO-M8N)
- Dual high-gain antenna pass-through
- Intel® Dual Band Wireless-AC 9260 Wi-Fi® 802.11a/b/g/n/ac 8620 on m5-6Y57 models)
- BlueCrystal® v6.1 (Class 1) + EDR (4.0 on m5-6Y57 Win7 Professional models)

POWER

- Li-ion battery pack:
  - Standard 3 tablet, optional 2nd battery in keyboard
  - 11.4V, 2600mAh (each battery)
- Battery operation:
  - 5-7Y57 models: 6.5 hours (17 hours with opt. 2nd battery)5
  - m5-6Y57 models: 8 hours (16 hours with opt. 2nd battery)
- Battery charging time: 3.5 hours (5 hours with opt. 2nd battery)
- Bridge battery: 1 minute hot swap time (optional on m5-6Y57 models)
- AC Adapter: AC 100-240V 50/60Hz, auto sensing/swapping worldwide power supply

SECURITY FEATURES

- TPM v2.0
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS®
- Kensington cable lock built-in (on tablet and keyboard)
- Optional fingerprint reader
- Optional insertable SmartCard CAC reader*
- Optional contactless SmartCard CAC reader*

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 10.1” L x 9.2” W x 1.3” (h) **
- 3.9 lbs.

HAZARDOUS LOCATION CERTIFICATIONS

- ANSI/ISA 2.12.01-2013

INTEGRATED OPTIONS

- Choice of dedicated GPS (u-blox NEO-M8N) or 4G LTE multi carrier mobile broadband with satellite GPS
- Choice on tablet of 10/20 capable barcode reader (N4603, serial (true), or second USB 2.0 port
- Choice on tablet of magstripe, insertable SmartCard CAC, contactless SmartCard CAC or fingerprint reader

SELECT ACCESSORIES

- AC Adapter Standard 65W [3-prong] CF-AA6613CM
- AC Adapter MLI Std-661F [3-prong] CF-AAA73AM
- Battery Pack CF-VZSU30X
- Battery Charger CF-VBD201M
- LIND Car Charger CF-LNDC120
- AC Adapter Standard 65W (3-prong) (MIL-STD-461F) CF-AA6413CM
- AC Adapter MIL-STD-461F (3-prong) CF-AAA75AM
- Battery Pack CF-VZSU30X
- Battery Charger CF-VBD201M
- LIND Car Charger CF-LNDC120
- AC Adapter Standard 65W (3-prong) (MIL-STD-461F) CF-AA6413CM
- AC Adapter MIL-STD-461F (3-prong) CF-AAA75AM
- Battery Pack CF-VZSU30X
- Battery Charger CF-VBD201M
- LIND Car Charger CF-LNDC120

Please consult your reseller or Panasonic representative before purchasing.

1 TPM 1.2 chip key default on m6-6Y57 models running Windows 7, but can run TPM 2.0 – see below Microsoft link for details: support.microsoft.com/en-us/topic/TPM-2-0-compatible?

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

5 Magstripe, Serial, 2nd USB or Barcode+Insertable SmartCard integrated options increase overall height and prohibit using 2nd USB/2.0 Port.

3 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

6 Requires software and activation to enable theft protection.

11 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

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