

Windows®. Life without Walls™. Panasonic recommends Windows.

THE TOUGHBOOK U1 ESSENTIAL

The original in handheld mobility with a full Windows® OS.

The Panasonic Toughbook® U1 Essential is the original member of the Toughbook U1 family, and is the clear alternative to legacy Windows® Mobile solutions when you need your mobile workers to do more in the field. With full Windows support (Vista® Business¹), a rugged modular design and a host of integrated options like GPS, Gobi™ mobile broadband, a 2MP camera and barcode readers, there are no limits to productivity. And for even more advanced field applications, the Toughbook U1 Ultra is the perfect productivity tool with enhanced outdoor screen viewability, processing power and Windows® 7 support.

IP65

**6-FOOT
DROP RATING**

**MIL-STD-
810G**

*The first MIL-STD-810G
certified handheld PC²*



TOUGHBOOK

THE PANASONIC TOUGHBOOK U1 ESSENTIAL.



DURABILITY FEATURES

- MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, salt fog)²
- MIL-STD-461F certified (requires special model)²
- IP65 certified sealed all-weather design²
- UL1604 class I, division 2, groups ABCD certified model
- CCX Certified v4
- Magnesium alloy chassis encased with ABS and elastomer
- Removable reinforced flex-connect SSD³
- Pivoting hand strap
- Reinforced locking port covers

SOFTWARE

- Genuine Windows Vista® Business¹
- Panasonic Utilities, Recovery DVD

CPU

- Intel® Atom™ Processor Z520
- Processor speed 1.33GHz
- 512KB L2 cache
- 533MHz FSB

STORAGE & MEMORY

- 1GB SDRAM (DDR2)⁴
- 16GB removable reinforced flex-connect SSD (32GB SSD optional)⁵

DISPLAY

- 5.6" widescreen 1024 x 600 WSVGA daylight-readable touchscreen
- External video support up to 1280 x 768 at 16 million colors
- Intel® SCH (GMA 500 video controller) max. 256MB UMA VRAM⁵
- Anti-glare, anti-reflective screen treatments
- LED backlighting

AUDIO

- Intel® high definition audio compliant
- Integrated speaker
- Convenient keyboard volume and mute controls

KEYBOARD & INPUT

- Touchscreen LCD
- Integrated stylus holder (x 2)
- Backlit 61-key with dedicated Windows® key and keyboard lock
- Zoom (in/out) and scroll (up/down) buttons
- 4 user-defined programmable buttons

EXPANSION SLOTS

- SD card (SDHC)
- Optional magnetic stripe reader (with mini-dock)
- Optional SmartCard reader (with mini-dock)

INTERFACE

- Docking connector Dedicated 19-pin
- Headphones/speaker Mini-jack stereo
- Microphone/line in Mini-jack stereo
- USB 2.0 (x 1) 4-pin
- Optional Ethernet (RJ-45) With mini-dock
- Optional serial With mini-dock

WIRELESS

- Optional integrated Gobi™ mobile broadband
- Intel® Wireless Wi-Fi Link 5100 802.11a/b/g/draft-n
- Bluetooth® v2.0 + EDR (Class 1)
- Security
 - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
 - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Slide on/off switch

POWER SUPPLY

- Twin hot-swappable lithium ion battery packs (7.2V, 2900mAh each)
- Battery operation: 9 hours⁶
- Battery charging time: 7 hours off, 10 hours on⁶
- AC Adapter: AC 100V-240V 50/60Hz

POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slots (x 2)
- Trusted platform module (TPM) security chip v.1.2 (on select models)
- Computrace® theft protection agent in BIOS⁷
- Optional fingerprint reader
- Optional SmartCard reader (with mini-dock)

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 5.9" (L) x 7.2" (W) x 2.2" (H)
- 2.3 lbs. (with strap and both batteries)

INTEGRATED OPTIONS⁸

- 1D laser barcode reader
- 2D imager barcode reader (1D or 2D capable)
- Gobi™ mobile broadband (EV-DO Rev. A, HSPA)
- 2.0MP camera with auto focus and dual LED light
- 32GB SSD
- GPS receiver
- Fingerprint reader



- Genuine Windows Vista® Business¹
- MIL-STD-810G, 6-foot Drop and IP65 Certified²
- Optional Integrated Camera, GPS, Barcode and Fingerprint Readers
- Wi-Fi, Bluetooth® and Optional Gobi™ WWAN
- Twin Hot-swappable Batteries for Continuous Use

ACCESSORIES⁹

- AC Adapter (3-pin) CF-AA1633AM
- 4-bay Battery Charger CF-VCBU11U
- Lithium Ion Battery Pack CF-VZSU53W
- LIND Car Adapter 120W CF-LNDDC120
- LIND Car Adapter 120W Mounting Bracket CF-LNDBRK120
- LIND Car/AC Adapter 90W (with USB port) CF-LNDACDC90
- LIND Car Adapter 90W MIL-STD CF-LNDMLDC90
- LIND Shutdown Timer CF-LNDLPT
- InfoCase U1 Holster TBCU1HSTR-P
- InfoCase U1 Harness TBCU1HRNS-P
- InfoCase U1 Harness Clear Cover TBCU1CLRCLR-P
- InfoCase U1 Strap TBCU1MSTP-P
- InfoCase U1/H1 Battery Pouch TBCU1BPCH-P
- External USB Combo Drive CF-VDRRT3U
- Desktop Cradle / Spare 2-bay Battery Charger CF-VEBU11BU
- Mag Stripe Reader Mini-dock CF-VCRU11U
- Serial/LAN/SmartCard Mini-dock CF-VEBU12U
- Serial/LAN/USB Micro-dock CF-MPU11UTT
- Personal Identification Mini-dock (PIMD)⁹ Project Driven
- Havis Docking Station
 - no pass-through DS-PAN-301
 - dual pass-through DS-PAN-301-2
 - no electronics DS-PAN-302
- Touchscreen Replacement Stylus CF-VNP003U
- 5.6" LCD Protector Film CF-VPF12U

Please consult your reseller or Panasonic representative before purchasing.

¹A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

²Tested by a 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.

³Hard drive removal should only be attempted by a technician with the proper equipment. 1GB = 1,000,000,000 bytes.

⁴Total usable memory will be less depending upon actual system configuration.

⁵Max with standard RAM. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM.

⁶Battery 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 2005.

⁷Requires software and activation to enable theft protection.

⁸Accessories and Integrated Options may vary depending on your configuration.

⁹PIMD includes an OCR (3 track MRZ) + RFID reader (ISO 15693, 14443 Type A/B) + fingerprint reader (FIPS 201).

1.800.662.3537 / panasonic.com/toughbook/U1-Essential

Financing options now available from Panasonic Finance Solutions; please call number above for more details.

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