The Panasonic Toughbook 19.

Rugged, Lightweight, Wireless and Convertible.

Panasonic recommends Windows Vista Business.

DURABILITY FEATURES
- MIL-STD-810F- and IP54-compliant
- 3-foot drop approved
- HDD heater
- Full magnesium alloy case with hand strap
- Shock-mounted, quick-release hard drive
- Sealed all-weather design
- Rain-, spill-, dust- and vibration-resistant
- Pre-installed replaceable screen film for LCD protection

SOFTWARE
- Genuine Windows Vista * Business (with XP downgrade option)
- Setup, Diagnostics, DMI Viewer, PC Information Viewer, Online Reference Manual, Adobe* Reader, Panasonic Handwriting (with signature capture on Tablet PC), Zoom Utility, Concealed Mode Utility, Software Keyboard, Display Rotation Tool, Hard Disk Data Erase Utility, Recovery DVD

CPU
- Intel* Core ™ 2 Duo Processor SU9300
  - Intel* Centrino* 2 with vPro ™ technology
  - Processor speed 1.2GHz
  - 3MB L2 cache
  - 800MHz FSB

STORAGE & MEMORY
- 2048MB SDRAM (DDR2-667MHz) standard, expandable to 4096MB   [1]
- 160GB HDD (shock-mounted and quick-release)   [2]

DISPLAY
- 10.4" 1024 X 768 XGA sunlight-viewable touchscreen or optional dual touch LCD
  - 1000 nit, AR, AG, circular polarizer
- External video support up to 1280 x 1024 at 16.7 million colors
- Intel* GS45 (GMA 4500MHD video controller) max. 1024MB UMA VRAM on XP   [1]
- Concealed mode

AUDIO
- Analog Devices AD1883 compliant audio codec
- Intel* high-definition audio compliant
- Integrated speaker
- Convenient keyboard volume and mute controls

EXPANSION SLOTS
- PC card type II x 1
- SD card (SDHC)
- ExpressCard/54 x 1

KEYBOARD & INPUT
- Touchscreen or dual touch (touchscreen and digitizer) models
- 82-key with dedicated Windows * key
- Pressure-sensitive touchpad with vertical scrolling support
- Integrated stylus holder

INTERFACE

Port replicator	Dedicated 100-pin
External video	D-sub 15-pin
Headphones/speaker	Mini-jack stereo
Microphone/line in	Mini-jack stereo
Serial	D-sub 9-pin
Ext. antenna conn. (x 2)	50 ohm coaxial
USB 2.0 (x 2)	4-pin
IEEE 1394a (FireWire)	4-pin
10/100/1000 Ethernet	RJ-45
56K Modem	RJ-11

WIRELESS
- Optional integrated Gobi ™ 3G global mobile Internet (WWAN)
- Intel* Wireless WiFi 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
- Dual high-gain antenna pass-through
- Slide on/off switch

POWER SUPPLY
- Lithium ion battery pack (10.65V, 5700mAh)
- Battery operation: approximately 9 hours (Vista), 10 hours (XP)   [3]
- Battery charging time: 4.5 hours off, 6.5 hours on   [3]
- AC Adapter: AC 100V-240V 50/60Hz, Auto sensing/switching worldwide power supply

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

SECURITY FEATURES
- 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 BIOS   [4]
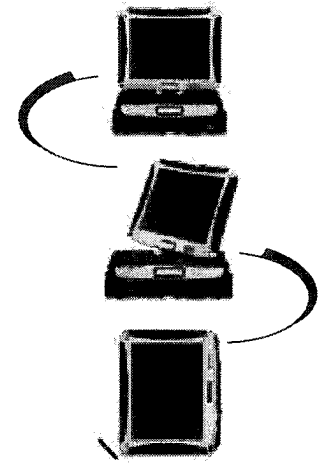- Optional fingerprint reader
- Optional SmartCard reader

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 8.5"(L) x 10.7"(W) x 1.9"(H)
- 5.1 lbs.

INTEGRATED OPTIONS [5]
- Global Mobile Broadband Internet
  - Gobi ™ Technology (EV-DO Rev. A, HSPA)
- 2.0MP camera with auto focus and dual LED light
- 32GB SSD
- Global positioning system (GPS) receiver
- Backlit keyboard
- SmartCard reader
- Fingerprint reader
- HDD and battery lock
- UL 1604 Class I, Division 2, Groups, A, B, C, D certified model

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- ☒ Convertible Notebook to Tablet Design
- ☒ 1000 Nit Sunlight-viewable Display
- ☒ Full Magnesium Alloy Case with Hand Strap
- ☒ Shock-mounted, Quick-release Hard Drive
- ☒ Sealed All-weather Design
- ☒ Intel* Centrino* 2 with vPro ™ Technology
- ☒ 3G Mobile Broadband- and GPS-ready Design

ACCESSORIES [5]

• AC Adapter (3-pin)	CF-AA1633AM
• Battery Charger	CF-VCBTB1W
• Dual Touch Replacement Stylus (for Digitizer)	CF-VNP012U
• Touchscreen Replacement Stylus	CF-VNP003U
• ToughMate ComUniversal Carrying Case (large capacity)	7540-P
• ToughMate ComUniversal Jr. Carrying Case	COMUNIVJR-P
• ToughMate ComUniversal Roller	TM-UNIVRLR-P
• ToughMate Always-on 19 Case	FM19-P
• ToughMate 19 "X" Hand Strap	FM19X-P
• Desktop Port Replicator	CF-VEB181AU
• External USB Combo Drive (DVD-ROM/CD-RW)	CF-VDRRT3U
• External USB Floppy Drive	CF-VFDU03U
• Lithium Ion Battery Pack	CF-VZSU48U
• Memory Cards	
– 1GB	CF-WMBA801G
– 2GB	CF-WMBA802G
• Vehicle Port Replicator	CF-WEB184AC
• 10.4" LCD Protector Film for Touchscreen & Dual Touch	CF-VPF11U

[1] Total usable memory will be less depending upon actual system configuration. Vista max. VRAM is 797MB with 2GB of memory, or 1551MB with 4GB of memory.

[2] 1GB = 1,000,000,000 bytes

[3] 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.

[4] Requires software and activation to enable theft protection.

[5] Accessories and Integrated Options may vary depending on your notebook configuration.

Please consult your reseller or Panasonic representative before purchasing.

Panasonic

(intel) Centrino 2 vPro
Protect.
Manage.

TOUGHBOOK

THE RUGGED ORIGINAL.