

Panasonic recommends Windows Vista® Business.



Protect.
Manage.



THE RUGGED CONVERTIBLE TOUGHBOOK® TOUGHBOOK CF-19

Intel® Centrino® 2 with vPro™ technology

Genuine Windows Vista® Business or
Genuine Windows® XP Professional

Vibration and shock resistant (MIL-STD 810F)

Water and dust resistant (IP54, MIL-STD 810F)

Lightweight at just 2.3kg



Extremely bright 10.4" LCD with Dual Touch or
Touchscreen (up to 1000cd/m²)

Long battery life of up to 9 hours

Firewire (IEEE1394a), USB 2.0 and serial port

Bluetooth™ and WLAN integrated

3G Broadband optional (UMTS/HSPA with Gobi-Chip)

TOUGHBOOK

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Information at www.toughbook.eu

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Featuring a revolutionary LCD screen that transforms from a high-performance notebook to a fully portable tablet PC, the CF-19 convertible tablet PC is reliable, durable and lightweight at just 2.3kg. The optimised display technology with low reflection allows for perfect visibility even in direct sunlight environments (up to 1000cd/m²). The LCD itself is protected by a durable scratch-resistant magnesium alloy case, mounted to the base cabinet with a reinforced 180 degree rotatable hinge. Data is secured on the hard disk drive – enclosed in a shock-absorbing damper that sits inside an aluminium case. A double waterproof structure ensures a tight, durable seal that complies with IP54 water and dust-proofing standards and a special HDD-heater counters any adverse temperatures. These striking features ensure that you can rely on the CF-19, even in extreme conditions.

The Intel® Centrino® 2 with vPro™ technology and Intel® Core™ 2 Duo processor delivers high performance and efficient energy consumption. Embedded WLAN and optional 3G Mobile Broadband capabilities enable wireless data transfer for business communication. The high-power battery allows for a running time of up to 9 hours.



Mobile Computing Platform	Intel® Centrino® 2 with vPro™ technology – Intel® Core™ 2 Duo processor SU9300 (1.2GHz, 3MB L2 cache, 800MHz FSB) – Mobile Intel® GS45 Express Chipsets – Intel® Wireless WiFi link 5100 AGN Network Connection (supporting 802.11a/b/g/n draft 2.0 compliant)
OS	Genuine Windows Vista® Business Service Pack 1 (for Dual Touch and Touchscreen model) or Genuine Windows® XP Professional Service Pack 2 (Downgrade for Touchscreen model) or Genuine Windows® XP Tablet PC Edition 2005 (Downgrade for Dual Touch and Touchscreen model)
RAM	2GB DDR2 SDRAM (max. 4GB)
Graphic Chip	Intel® Graphics Memory Control Hub; UMA [2GB RAM: Win XP: max. 1024MB; Win Vista: max. 797MB]
Storage	160GB HDD (SATA, easy accessible, shock resistant – withstands 90cm drop); SSD (max. 32GB – project driven)
LCD	10.4" sunlight-viewable XGA Active Matrix (TFT) colour LCD with up to 1000cd/m² – Touchscreen model or – Dual Touch model (Touchscreen and Digitizer) 1024 x 768 pixels (XGA); 16 million colours; Concealed Mode
Cabinet	Full magnesium alloy with handstrap
Bluetooth™	Version 2.0 + EDR (class 1)
WLAN	IEEE 802.11a/b/g/n draft 2.0 compliant (max. 54Mbps); slide on/off switch
LAN	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
Modem	Data: 56kbps (V.92), FAX: 14.4kbps
Sound	SigmaTel™ STAC9751 AC-97 v.2.2 compliant audio codec, supporting Intel® High Definition Audio Subsystem Monaural speaker (integrated in display cabinet)
Input Devices	Touchscreen or Dual Touch LCD, Touchpad and Keyboard
Indicators	9 LEDs (Power, Battery, HDD, Caps Lock, Scroll Lock, Num Lock, SD Card, WWAN, Wireless Data Transfer)
Interfaces	Serial (16550A compatible): Dsub, 9-pin External display (VGA port): Mini Dsub, 15-pin Headphone: Mini-jack, 3.5 DIA Microphone: Mini-jack, 3.5 DIA, stereo DC In: Jack USB 2.0: 2x 4-pin Modem: RJ-11 LAN: RJ-45 Firewire (IEEE1394a): 1x 4-pin External Antennae: 2x (Dedicated 50Ω coaxial connector) Port Replicator: 100-pin
Expansion Slots	PC Card: 1x Type I or Type II (3.3V: 400mA, 5V: 400mA) Express Card: 1x ExpressCard/34 or ExpressCard/54 SD/SDHC Memory Card: 1x Optional RAM Module: 1x SO-DIMM (200-pin, 1.8V, DDR2 SDRAM, PC2-5300 Compliant)
Power	AC Adapter: Input: 100 ~ 240V AC, 50Hz/60Hz; Output: 16V DC, 3.75A Battery: Li-ion (10.65V, 5.7Ah) Battery Life (Mobile Mark™ 2007, 60cd/m²): Approx. 9 hours (Vista model), approx. 10 hours (XP model) Charging Time: Power off: approx. 4.5 hours; Power on: approx. 6.5 hours Power Consumption: Approx. 60W (maximum when recharging)
Power Management Software	Standby function, Hibernation function, ACPI BIOS Adobe Reader, PC Information Viewer, Loupe Utility, Intel® PROSet/Wireless Software, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Display Rotation Tool, Infineon TPM Professional Package, Power Saving Utility, Wireless Connection Disable Utility, Concealed Mode Utility Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility
Security Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, HDD Lock)
Dimensions (WxHxD)	271mm x 49mm x 216mm / 10.7" x 1.93" x 8.5" (excluding protrusions)
Weight	Approx. 2.3kg / 5.07lb (including battery)
Integrated Options	GPS, Fingerprint Reader, Smart Card Reader, 3G Mobile Broadband (HSPA, up to 7.2Mbps), Solid State Disk (max. 32GB – project driven), 2MP camera with dual LED light (project driven)
Accessories	AC adapter: CF-AA1633AE, CF-AA1633AG, CF-AA1633AT Battery charger: CF-VCBTB1W Battery pack: CF-VZSU48U Car-Charger: CF-AAV1601AW (Type A, 60W,12V/24V), CF-LIND8024FD (EIAJ & Type A both 80W, 12-32V) Car-Mount: CF-WEB184B Combo-Drive (USB): CF-VDRRT3U Port-Replicator: CF-VEB181AU RAM modules: CF-WMBA801G (1GB), CF-WMBA802G (2GB)
Testing Standards	Water resistance test: IEC529 (JIS C0920) IPX4, MIL-STD 810F 506.4-III Dust resistance test: IEC529 (JIS C0920) IP5X, MIL-STD 810F 510.4-Level Gravity drop resistance test: MIL-STD 810F 516.5 (90cm drop) Vibration resistance test: MIL-STD 810F 514.5 category 24

Specification and configuration may vary depending on country. Accessories may vary depending on your notebook configuration. Consult a Panasonic sales office near you for more details and availability of integrated options. All specifications are subject to change without notice.

As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. HDD capacity calculated as follows: 1GB = 1,000,000,000 bytes.

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