Panasonic recommends Windows Vista® Business

A Semi Ruggedised, Durable, Powerful, Business PC





We implement environment management systems in our factories worldwide and have acquired ISO14001 certification.



Lead-free solder used for PCB component mounting.

Shock-resistant body survives 76-cm free-fall tests*1

Magnesium Alloy casing with easy to carry handle

Processor Core[™] 2 **Duo**

Main Features

Genuine Windows Vista® Business

Desktop replacement 15.4" wide
screen and latest Intel® Centrino®

TOUGHBOOK

Semi Rugged Series

160 GB SATA Removable Shock Mounted Removable HDD

Moisture and Dust Resistant Keyboard and Touch Pad

Operates with the standard battery for up to 7.5 hours*2

Integrated Bluetooth™ as standard

Sealed port and connector covers for water and dust resistance

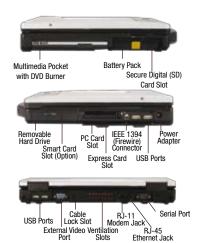
Serial, USB 2.0 x 4 and IEEE 1394a connectors as standard

Embedded options:
3G, Fingerprint scanner &
Smart Card Reader

Interface



- Genuine Windows Vista® Business (XP Downgrade DVD in box)
 Intel® Contrine® Technology:
- Intel[®] Centrino[®] Technology:
 Intel[®] Core[™] 2 Duo Processor
- (Standard Voltage version P8400): 3MB L2 cache, 2.26 GHz, 1066 MHz FSB Intel® Shirley Peak PRO/Wireless 4965 (802.11 a/b/g/n)
- HDD: 160 GB⁻³ SATA
- RAM: Standard 1GB^{*4} (4 GB max.^{*5})^{*6}
- 15.4" TFT / WXGA resolution







^{*1} Test conducted in non-operating condition. The shock resistance, vibration resistance, dust-proof, and splash-proof specifications do not guarantee that the product can be operated without damage or malfunction. *2 The period of battery operation time varies according to the operating environment, LCD brightness, and system settings. Measured using BatteryMark* "Ver.4.0.1" (LCD brightness Minimum). "3 16B = 1,000 MB, in capacity. The actual capacity may be less than displayed, depending on the OS and application software. *4 1MB = 1,048,576 bytes in capacity. "5 When the existing 1GB-MB DIMM is replaced with a 2-GB DIMM. "6 1GB = 1,000 MB, in capacity. Operating system or some application software will report as fewer GB.



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CF-52 Mk2		CF-52GCMBVAM
Operating System CPU		Genuine Windows Vista® Business (XP Downgrade DND in box) Intel® Centrino® Core 2 Duo Processor P8400 (2.26 GHz, 3 MB ⁻¹ L2 cache, 1066 MHz FSB)
Chipset		Intel® GM45
Memory*1		1 GB (4 GB Max.)
Video Memory*1*2		UMA (384 MB Max.)
Hard Disk Drive*3		160 GB SATA
Display Method		15.4" TFT/WXGA 200 nit
Wireless LAN		Intel® ShirleyPeak 802.11 a/b/g/n
Bluetooth		Version 2.0+EDR
LAN		IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000 Base T (10/100/100)
Modem		Data: 56 kbps (V.92) FAX: 14.4 kbps
Sound		WAVE and MIDI playback, Monaural speaker, Intel® High Definition Audio subsystem support
Security Chip		TPM (TCG V1.2 compliant) ⁻⁴
Card Slot	PC Card	Type I or Type II x 1 (3.3 V: 400 mA, 5 V: 400 mA)
	ExpressCard	ExpressCard/34 or ExpressCard/54 x 1
	HCSD Memory Card	HCSD x 1, Data transfer rate = 8 MB per second'5
	Smart Card Reader	x 1 Optional
RAM Module Slot	ornar oa a rioadoi	200-pin, 1.8 V, SO-DIMM, DDR2 SDRAM, PC2-4200 Compliant
Interface		USB port (4-pin, USB 2.0) x 4, Serial Port (Dsub 9-pin male), Modem port (RJ-11), LAN port (RJ-45), External display port (Mini Dsub 15-pin female), IEEE1394a Interface Connector (4-pin × 1), Microphone Jack (Miniature jack, 3.5 DIA, Stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW × 2, Stereo) Setup Utility, Hard Disk Data Erase Utility*
Keyboard / Pointing Device		87 keys Water Resistant / Touch Pad
Power Supply		AC adaptor, DC adapter or Battery pack
AC Adaptor		Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 16.0 V DC, 3.75 A
Battery Pack	Operating Time ¹⁶	Li-ion 9 cell 11.1v 7800mAh Approx. 7.0 hours to 7.5 hours ⁷ (Approx. 7.5 hours ⁸)
	Charging Time ^{*6} (Power off)	Approx. 4.5 Hours
Power Consumption'9		Approx. 26 W ¹⁰ / Approx. 55 W (Maximum when recharging in the on state)
Physical Dimensions (W \times H \times D)		355.7 mm \times 286.3mm \times 8 \times 50.7mm - 51.9mm with handle
Weight		Approx.3.35 kg
Operating Environment		Temperature: 5°C to 35°C Humidity: 30% to 80% RH (No condensation)
Storage Environment		Temperature: -20°C to 60°C Humidity: 30% to 90% RH (No condensation)
Utility Programs		DMI Viewer, Adobe Reader, PC Information Viewer, SD Utility, Icon Enlarger, Loupe Utility, WinDVDTM 5 (DEM Version), B's Recorder GOLD8 BASIC, B's CLIP 6, Intel® PROSet/Wireless Software*11, Bluetooth*M Stack for Windows® by TOSHIBA*12 Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package*13, Recover Pro**13 Setup Utility / Hard Disk Data Erase Utility*14 / PC-Diagnostic Utility*14

- *1 1 GB = 1,000 MB
- *2 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.
- $\star 3$ 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- *4 For information on TPM, click [start] (Run] and input "c:\util\drivers\tpm\README.pdf", and refer to the Installation Manual of "Trusted Platform Module (TPM)".
- *5 Operation has been tested and confirmed using Panasonic SD Memory Cards with a capacity of up to 32 GB.

The transfer rate using the SD Memory Card slot on this computer is 8 MB per second. (This is a theoretical value, and differs from actual speeds.)

The transfer rate is 8 MB per second even if you use an SD Memory Card that supports high-speed transfer rates.

Operation on other SD equipment is not guaranteed.

This computer is not compatible with Multi Media Cards. Do not insert these kinds of cards.

- *6 Varies depending on usage
- *7 Measured using BatteryMark. Version 4.0.1 (LCD brightness: Maximum Minimum)
- *8 Measured using MobileMark. 2005 (LCD brightness: 60 cd/m2)
- *9 26 W when the battery pack is fully charged (or not being charged) and the computer is OFF. Approx. 1.2 W when the Wake up from LAN has been enabled.
- *10 Rated power consumption 23-E-1
- *11 Only for model with wireless LAN Approx.
- *12 Only for model with Bluetooth
- *13 You need to install to use the feature.
- *14 The Product Recovery DVD-ROM is required.

Panasonic reserves the right to change design and specifications with out notice.



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