Panasonic recommends Windows.



Mobile PC made for your business

TOUGHBOOK CF-SX2



Weighing only about 1.21 kg*3



Battery power runs for approx. 9 hours*4



Passed 76 cm free-fall test*5 & 100-kgf pressurized vibration test*6



■ 720p HD web camera enables video conference



HDMI port for high quality audio & visual output



Strong & light shell drive developed by Panasonic



High resolution LCD displays sharp image & text



*11 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes. *2 The HDD is 1 GB (1,000,000,000 bytes) in capacity. The actual capacity may be less than displayed, depending on the OS and application software. *3 Average value. May differ depending on models. *4 Operating time measured in accordance with JEITA battery run time measurement method (Ver. 1.0). Varies depending on the usage conditions, or when an optional device is attached. When Economy Mode (ECO) is disabled. *5 Carried out in Panasonic technical research lab. Dropped on to bottom (in operation-mode). *6 Carried out in a Panasonic laboratory in non-operation mode. Vibration with pressure of 980 N (100 kgf) is applied uniformly over the top and bottom faces

Panasonic recommends Windows.

CF-SX2

LAN

Sound

Card Slots

Camera

Power Supply

AC Adaptor

Battery Pack

Weight*16

Operating Environment

Power Consumption

Physical Dimensions (W x D x H)

RAM Module Slot Interface

Keyboard / Pointing Device

SD Memory Card Slot

Effective number of pixels

x 1

84 keys / Touch Pad High Definition 720p

Output: 16 V DC, 5 A

Approx. 1.21 kg 5 °C to 35 °C

AC adaptor or Battery pack

295 mm x 197.5 mm x 25.4 mm

30 % to 80 % RH (No condensation)

Max. 1280 x 720

Built-in

SIM Card Slot

Resolution

Microphone

Operating Time*12

Charging Time*13

Temperature















Model No.		CF-SX2 series
OS* ¹		Windows 7 Professional 32-bit or Windows 7 Professional 64-bit
CPU		Intel® Core™ i5-3320M Processor (3 MB*2 cache, up to 3.30 GHz) with Intel® Turbo Boost Technology
Chipset		Mobile Intel® QM77 Express Chipset
Main Memory*2*3		4 GB, DDR3L SDRAM (8 GB*2 Max.)
Video Memory		UMA (<32-bit> 1551 MB*2 Max., <64-bit> 1696 MB*2 Max.)*4
Video Controller		Built-in Chip Set
Hard Disk Drive		250 GB* ⁵
		Approx. 40 GB* ⁵ (HDD Recovery partition) and Approx. 300 MB* ⁵ (Recovery partition) are used as
		recovery partitions. (Users cannot use these partitions.)
CD/DVD Drive		DVD MULTI Drive built-in, Buffer underrun error prevention function: Supported
Display Method		12.1 (TFT) (1600 × 900 dots)
	Internal LCD	65,536/16,777,216 colors (1600 × 900 dots)* ⁶
	External Display*7	65,536/16,777,216 colors (800 x 600 dots, 1024 x 768 dots, 1280 x 720 dots, 1280 x 768 dots, 1280 x 1024 dots, 1360 x 768 dots, 1366 x 768 dots, 1400 x 1050 dots, 1600 x 900 dots, 1600 x 1200 dots, 1680 x 1050 dots, 1920 x 1080 dots, 1920 x 1200 dots)
	Simultaneous Display on LCD + External Display*7	65,536/16,777,216 colors (800 x 600 dots, 1024 x 768 dots, 1280 x 720 dots, 1280 x 768 dots, 1360 x 768 dots, 1366 x 768 dots, 1600 x 900 dots)*
Wireless LAN		Intel® Centrino® Advanced-N 6205 (IEEE802.11a/b/g/n compliant)
Bluetooth TM		Ver 4.0
Wireless WAN (Optional)		Ericsson F5521gw
	HSUPA	5.7 Mbps

x 1 (SDHC & SDXC Memory Card support)*8

/ Headphone Jack (Miniature jack, 3.5 DIA)

Input: 100 V - 240 V AC, 50 Hz / 60 Hz

Small: Li-ion 7.2 V, 6800 mAh (included) Large: Li-ion 7.2 V, 13600 mAh (optional)

IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T WAVE and MIDI playback, Intel® High Definition Audio subsystem support

x 1, DDR3L SDRAM, 204-pin, 1.35 V, SO-DIMM, PC3-10600 Compliant
USB 3.0 Ports × 2 (left side)* / USB 2.0 Port × 1 (right side)* / UAN Port (RJ-45) × 1 / External Display
Port (VGA) (Mini Dsub 15-pin female) / HDMI Port (Type A)* / Microphone Jack (Miniature jack, 3.5 DIA)

Approx. 9 hours (without WWAN) / Approx. 8 hours (with WWAN) < Economy Mode (ECO) - Disable>

Approx. 25 W* 15 / Approx. 65 W (maximum when non-recharging in the ON state)

Humidity Adobe Reader, PC Information Viewer, Intel® PROSet/Wireless Software, Bluetooth Stack for Windows® by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility* 17, Hotkey Settings, Battery Recalibration Utility, Aptio Setup, Utility, PC-Diagnostic Utility, Roxio Creator LJB, CyberLink PowerDVD 10, Hard Disk Data Erase Utility* 18, Recovery Disc Creation Utility, Dashboard for Panasonic PC, Quick Boot Manager, Power Plan Extension Utility, Camera Utility, USB Charge Setting Utility, PC Information Panager, Power Plan Extension Utility, Camera Utility, USB Charge Setting Utility, PC Pre-installed Software* Information Popup, Touchpad Utility

Approx. 3 hours (Power Off) / Approx. 2.5 hours (Power on)

Information Popup, Touchpad Utility

1 When reinstalling Windows using the data of the recovery area on the hard disk, you can select the OS to be installed (either Windows 7 (32-bit) or Windows 7 (64-bit)). Operations of this computer are not guaranteed except for the pre-installed OS, or the OS which is generated by the product recovery software pre-installed. 2 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes. 3 For 32-bit OS, the usable memory available will be less depending on the specifications (3.4 GB to 3.5 GB). 4 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. The size of Video memory is allotted depending on the operating system. 51 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB. 6 A 16,777,216 color display is achieved by using the dithering function. 7 Display may be impossible using some connected external displays. 8 This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC/SDX Memory Cards with a capacity of up to 64 GB. Operation on other SD equipment is not guaranteed. 9 Compatible with USB 1.1/2.0/3.0. Does not guarantee operation of all USB-compatible peripherals. *110 Compatible with USB 1.1/2.0 Does not guarantee operation of all HDMI-compatible peripherals. *120 perating time measured in accordance with LBITA battery run time measurement method (Ver.1.0). Varies depending on the usage conditions, or when an optional device is attached. *13 Varies depending on the usage conditions, or when an optional device is attached. *13 Varies depending on the usage conditions, or when an optional device is attached. *13 Varies depending on the usage conditions, or when an optional device is attached. *13 Varies depending on the usage conditions, or when an optional device is consumed (Max. 0.2 W) simply by having the AC adaptor plugged into an AC outlet. *40 Nen

As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix color display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artifact of the manufacturing process (effective pixels: minimum 99.998%, defect pixels: maximum 0.002%). Panasonic and TOUGHBOOK are brand names and registered trademarks of Panasonic Corporation. Acrobat® is a registered trademark of Adobe® Systems Incorporated. Intel, the Intel logo, Centrino, Centrino Inside, Intel Core, Core Inside, Intel vPro, and vPro Inside are trademarks of Intel Corporation in the United States and other countries. Microsoft® and Windows® are trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances. TOUGH1211.SX2