

Specifications

● Main Specifications

Model No.	CF-W2FWCZZBM
CPU/ Secondary cache memory	Intel® Pentium® M Processor 753 (1.20 GHz, 2 MB*1 L2 cache, 400 MHz FSB)
Chip Set	Intel® 855 GM chip set
Main Memory	512 MB*1, DDR SDRAM (1024 MB*1 Max.)
Video Memory	UMA (64 MB*1 Max.)*2
Hard Disk Drive	Approx. 40 GB*3
DVD-ROM & CD-R/RW Drive	Buffer underrun error prevention function: Supported
Continuous Data Transfer Speed*4*5/ Playback	●DVD-RAM*6: 2X speed (4.7 GB*3)/1X speed (2.6 GB*3) ●DVD-R*7: 4X speed (Max.) ●DVD-RW: 4X speed (Max.) ●DVD-ROM*8: 8X speed (Max.) ●CD-ROM*8: 24X speed (Max.) ●CD-R*8: 24X speed (Max.) ●CD-RW*8: 24X speed (Max.)
Continuous Data Transfer Speed*4*5/ Recording	●CD-R write*9: 4X speed, 8X speed, 8-16X speed, 8-24X speed ●CD-RW write: 4X speed ●High-Speed CD-RW write*10: 4X speed, 8X speed, 10X speed ●Ultra-Speed CD-RW write*10: 8X speed, 10X speed, 8-16X speed*11
Compatible Disk and Compatible For- mats*5/Playback	●DVD-ROM (Single Layer, Dual Layer) ●DVD-Video ●DVD-R*7(1.4 GB, 3.95 GB, 4.7 GB)*3 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 4.7 GB, 9.4 GB)*3 ●DVD-RAM*6 (1.4 GB, 2.8 GB, 2.6 GB, 5.2 GB, 4.7 GB, 9.4 GB)*3 ●CD-Audio ●CD-ROM (XA compatible) ●CD-R ●Photo CD (multiple session compatible) ●VideoCD ●CD-EXTRA ●CD-RW ●CD-TEXT
Compatible Disks and Compatible For- mats*5/Recording	●CD-R ●CD-RW
Display Method	12.1 XGA type (TFT) (1024 × 768 dots)
Internal LCD Display	65,536/16,777,216 colors (1024 × 768 dots)*12
External Display*13	65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 1024 dots/1600 × 1200 dots)
Simultaneous Display on LCD + Exter- nal Display*13	65,536/16,777,216 colors (800 × 600 dots, 1024 × 768 dots)*12
Wireless LAN	Built-in Intel® PRO/Wireless 2915 ABG (→ page 74)
LAN*14	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX
Modem	Data: 56 kbps (V.92) FAX: 14.4 kbps
Sound	WAVE and MIDI playback, Monaural Speaker (built in)
Card Slots	PC Card Slot × 1: (One Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA) SD Memory Card Slot*15 × 1
RAM Module Slot	172-pin, 2.5 V, Micro DIMM, DDR SDRAM, PC2100 Compliant*16
Interface	USB Ports × 2 (USB2.0 × 2)*17 / Modem Port (RJ-11) / LAN Port (RJ-45)*14 / External Display Port: Mini Dsub 15-pin female / Microphone Jack: Miniature jack, 3.5 DIA / Headphone Jack: Miniature jack, 3.5 DIA
Keyboard/Pointing Device	85 keys/Touch Pad
Power	AC adaptor or Battery pack
AC Adaptor*18	Input: 100 V - 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 2.5 A

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Model No.		CF-W2FWCZZBM	
Battery Pack		Li-ion 7.4 V, 7.05 Ah	
Operating Time ^{*19}		Approx. 4 hours - 7.5 hours ^{*20} (Approx. 5.5 hours ^{*21})	
Charging Time ^{*22}		Approx. 4.5 hours	
Power Consumption ^{*23}		Approx. 35 W ^{*24} / Approx. 40 W (maximum when recharging in the ON state)	
Physical Dimensions (W × H × D)		268 mm × 27.5 mm (at the front)/41.5 mm (at the rear) × 209.2 mm (excluding protrusion) {10.6 " × 1.1 " / 1.7 " × 8.3 "}	
Weight		Approx. 1310 g {2.9 lb.}	
Environment	Operation	Temperature	5°C to 35°C {41°F to 95°F}
		Humidity	30% to 80% RH (No condensation)
	Storage	Temperature	-20°C to 60°C {-4°F to 140°F}
		Humidity	30% to 90% RH (No condensation)

*1 1 MB = 1,048,576 bytes

*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.

*3 1 GB = 1,000,000,000 bytes. Operating system or some application software will report as fewer GB.

*4 Data transfer speeds indicate values measured by Matsushita Electric Industrial Co., Ltd. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.

*5 Performance of CD-R, CD-RW, DVD-RAM, DVD-R, and DVD-RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disk, settings, and environment being used.

*6 In the case of DVD-RAM, only non-cartridge disks or removable cartridge disks can be used.

*7 DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with disks recorded using Disk-at-Once recording.

*8 If an unbalanced disk (e.g., a disk with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disk is rotating.

*9 Depending on the disk, the writing speed may become slower.

*10 Does not support 24X speed rewriting.

*11 Does not support 4X speed.

*12 A 16,777,216 color display is achieved by using the dithering function.

*13 Display may be impossible using some connected external displays.

*14 Some devices cannot be used depending on the port type.

*15 Operation has been confirmed for Panasonic SD memory cards with up to 1 GB capacity. The transfer rate using the SD memory card slot on this computer is 2 MB per second (this is a theoretical value, and differs from actual speeds). The transfer rate is 2 MB per second even if you use an SD memory card that supports high-speed transfer rates. Does not guarantee connection/operation of all SD devices. Does not support SD I/O.

*16 A PC2700-compliant RAM module added to this computer, operates at the same speed as a PC2100-compliant RAM module.

*17 Does not guarantee operation of all USB-compatible peripherals.

*18 <Only for North America>

The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

*19 Varies depending on the usage conditions, CPU speed, etc.

*20 Measured using BatteryMark™ Version 4.0.1 (LCD brightness: Maximum - Minimum)

*21 Measured using MobileMark™ 2002 (LCD brightness: 60 cd/m²)

*22 Varies depending on the usage conditions, CPU speed, etc.

It may take a long time to charge a fully discharged battery.

*23 Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.

*24 Rated power consumption.

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OS* ¹	Microsoft® Windows® XP Professional with Service Pack 2 with Advanced Security Technologies (NTFS File system)
Pre-installed Software* ¹	Microsoft® Internet Explorer 6 Service Pack 2 / DirectX 9.0 c / Microsoft® Windows® Media Player 9 / Microsoft® Windows® Movie Maker 2.1
	Adobe Reader, Intel® PROSet/Wireless Software, SD Utility, Icon Enlarger, Loupe Utility, Touch Pad Utility, DMI Viewer, PC Information Viewer, WinDVD™5 (OEM Version), B's Recorder GOLD8 BASIC, B's CLiP 6* ² , Hotkey Settings, Optical Disc Drive Power-Saving Utility, Wireless LAN Switch Setup Utility, Hard Disk Data Erase Utility* ³ , Hard Disk Backup Utility* ³

*¹ Operations of this computer are not guaranteed except for the pre-installed OS.

*² Preinstalled B's CLiP does not support CD-R.

*³ The Product Recovery DVD-ROM is required.

● Wireless LAN

Data Transfer Rates	IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched)* ⁴ IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched)* ⁴ IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)* ⁴
Standard Supported	IEEE802.11a/IEEE802.11b/IEEE802.11g
Transmission Method	OFDM system, DSSS system
Wireless Channels Used	IEEE802.11a: channels 36/40/44/48/52/56/60/64/149/153/157/161/165 IEEE802.11b/ IEEE802.11g: channels 1 to 11
RF Frequency Band	IEEE802.11a: 5.18 - 5.32 GHz, 5.745 - 5.825 GHz IEEE802.11b/ IEEE802.11g: 2412 - 2462 MHz

*⁴ These are speeds specified in IEEE802.11a+b+g standards. Actual speeds may differ.