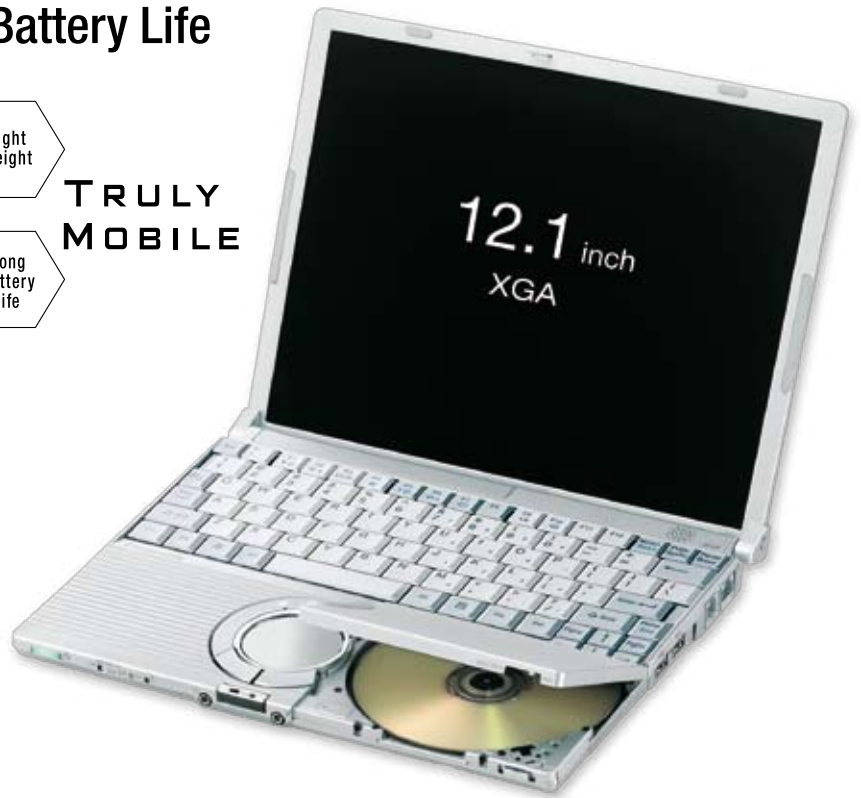
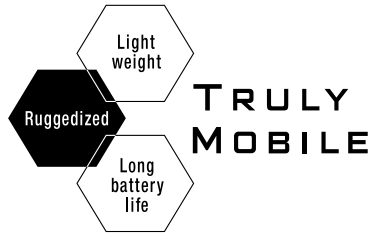


CF-W5

Business Rugged Series



Lightweight Business Rugged Mobile Notebook with Integrated Super Multi Drive and Long Battery Life



Main Features

LIGHTWEIGHT

Weighing only about 1,240 g² with a 12.1" LCD and integrated optical drive.

LONG BATTERY LIFE

Runs for up to 11 hours³ on standard battery power.

RUGGEDISED

Passes a 100-kgf pressurised vibration test¹ and a 30-cm [not operating]/10-cm [operating] free fall test.

WIRELESS

Integrated wireless LAN (IEEE802.11A/B/G).
* WWAN model is also available.

RAM 512 MB (standard)
(max. 1,536 MB)⁵

Economy Mode (ECO)^{*6}

By switching to Economy Mode, you can extend the battery's durability lifetime by 50%⁷

Wireless Switch

You can easily switch the wireless function on or off to save power.

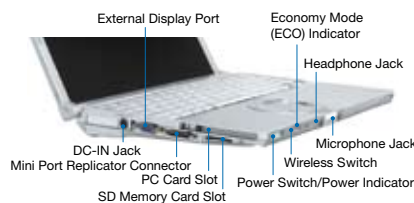
Keyboard



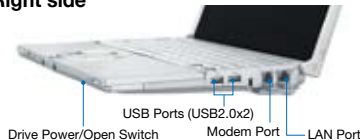
▲ Actual size Key pitch 19 mm

Interface

● Left side



● Right side



Super Multi Drive

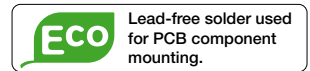
The cover opens upward, making it possible to insert and remove discs without requiring much space.



WITHSTANDS 100kg FORCE^{*1}

Laser printing has improved the durability of the characters printed on the key tops.

- Key pitch: 19 mm (horizontal)⁸
- Key stroke: 2 mm



- Genuine Microsoft® Windows® XP Professional
- Intel® Centrino® Mobile Technology
- Intel® Core™ Solo Processor (Ultra Low Voltage™ version U1400): 2-MB L2 cache, 1.20 GHz, 533 MHz FSB
- Built-in Intel® PRO/Wireless 3945ABG network connection 802.11a/b/g Security-Authentication: LEAP, WPA, 802.1X, EAP-TLS, EAP-FAST, PEAP Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- HDD: Approximately 60 GB⁹
- RAM: Standard 512 MB (1,536 MB max.)⁵
- TFT color LCD: 12.1" supporting XGA resolution



^{*1} 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. ^{*2} Average weight. The actual weight of each product may vary slightly. ^{*3} The Economy Mode (ECO) was disabled during measurement. 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). ^{*4} The TOUGHBOOK shock- and pressure-resistance data given here does not imply any guarantee against damage or malfunction. ^{*5} 1 MB = 1,048,576 bytes in capacity. ^{*6} The battery drive time with Economy Mode (ECO) enabled is about 80% that with ECO Mode disabled. ^{*7} Varies depending on the operating environment and usage. ^{*8} Vertical key pitch is 16 mm. ^{*9} 1 GB = 1,000,000,000 bytes in capacity. The actual capacity may be less than displayed, depending on the OS and application software.

TOUGHBOOK

CF-W5

CF-W5LWSYZBM

CPU	Intel® Core Solo Processor ULV U1400 (1.2 GHz, 2 MB L2 cache, 533 MHz FSB)	
Chipset	Intel® 945GMS Express Chipset	
Memory	512 MB (1536 MB Max.)	
Video Memory	UMA (128 MB Max.)	
Hard Disk Drive	60 GB (2.5")	
Optical Disk Drive	DVD MULTI Drive (USB2.0 connection interface)	
Display Method	12.1" XGA type(TFT) (1024 × 768 dots) Internal LCD External Display Simultaneous Display	65,536/16,777,216 colours (1024 × 768 dots) 65,536/16,777,216 colours (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots /1400 × 1050 dots/1600 × 1200 dots/2048 × 1536 dots/2048 × 1536 dots(60Hz)) 65,536/16,777,216 colours (800 × 600 dots/1024 × 768 dots)
Wireless LAN	Intel PRO/Wireless 3945ABG (IEEE802.11a/b/g)	
LAN	IEEE802.3 10Base-T/ IEEE802.3u 100Base-TX	
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)	
Card Slot	PC Card SD Memory Card	Type II x 1 (3.3 V: 400 mA, 5 V: 400 mA) x 1, Data transfer rate = 8 MB per second
RAM Module Slot	172-pin, 1.8 V, MicroDIMM Slot x1, DDR2 SDRAM, PC2-4200 Compliant	
Interface	USB port (4-pin, USB 2.0 compliant) x 2, Modem port (RJ-11), LAN port (RJ-45), External display port (Mini Dsub 15-pin female), Mini Port Replicator Connector (Dedicated 50-pin male), Microphone Jack (Miniature jack, 3.5 DIA, stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 ohm, stereo)	
Keyboard / Pointing Device	83 keys / Touch Pad	
Power Supply	AC adaptor or Battery pack	
AC Adaptor	Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 16 V DC, 2.5 A	
Battery Pack	Li-ion 10.65 V, 5.7 Ah Operating Time Charging Time	Approx. 5.5 hours to 11 hours ¹ (Approx. 8 hours) ² Disable Economy Mode(ECO) Power off Approx. 5 hours Power on Approx. 6.5 hours
Clock Battery	Coin type lithium battery 3.0 V	
Power Consumption	Approx. 35 W	40 W maximum when recharging in the ON state)
Physical Dimensions (W × H × D)	(268 mm × 24.9/46.2 mm × 210.4 mm (excluding protrusion)	
Weight	Approx. 1240g	
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)	
Operating System	Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File System)	
Utility Programs	Microsoft® Internet Explorer 6 Service Pack 2 / DirectX 9.0c /Microsoft® Windows® Media Player 10 / Microsoft® Windows® Movie Maker 2.1 /Microsoft® .NET Framework 1.1 SP1/2.0/ Adobe Reader / Intel® PROSet/Wireless Software / SD Utility / Icon Enlarger / Loupe Utility /Touch Pad Utility / DMI Viewer / PC Information Viewer / / Hotkey Settings / Wireless Switch Utility/ Economy Mode (ECO)/ Battery Recalibration Utility / WinDVD™5 (OEM Version) /B's Recorder GOLD8 BASIC / B's CLiP 6 /Optical Disc Drive Letter-Setting Utility /Optical Disc Drive Power-Saving Utility Infineon TPM Professional Package V2.5/Recover Pro 6<Must be installed before use.> Hard Disk Data Erase Utility<The Product Recovery DVD-ROM is required.> Setup Utility / PC-Diagnostic Utility	

*1 Measured using BatteryMark version 4.01 (LCD brightness maximum-minimum)

*2 Measured using MobileMark 2005 (LCD brightness 60 cd/m²)