Panasonic recommends Windows® 7.

TOUGHBOOK CF-19
THE FULLY RUGGED CONVERTIBLE TOUGHBOOK.

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 balanced lightweight at just 2.3kg. The optimised transflective plus display technology with low reflection allows for perfect visibility even in direct sunlight environments (up to 6.500cd/m² reflective brightness, depending on light conditions).

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 IP65* 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.

- Intel® Core™ i5-3320M vPro processor
- Genuine Windows® 7 Professional
- Intel HD 4000 graphics
- Vibration and shock resistant (MIL-STD 810G)*
- Water and dust resistant (IP65, MIL-STD 810G)*
- Balanced lightweight at just 2.3kg
- Extremely bright 10.1” transflective plus LCD with Touchscreen or Dual Touch (up to 6.500cd/m² reflective brightness, depending on light conditions)
- Ambient light sensor for advanced power management
- USB 3.0 SuperSpeed port
- Long battery life of up to 10 hours
- 3G mobile broadband optional (HSPA+, up to 21Mbps)
- Panasonic dashboard management software
- Concealed Mode to switch PC into “silent mode”

* Tested by an independent third party lab following IEC 60529, sections 13.4, 13.6.2, 14.2.5, 14.3
## MOBILE BUSINESS EXCELLENCE

The 3rd generation Intel® Core™ i5 with vPro™ technology and standard Intel® Core™ i5-3320M 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 10 hours. The CF-19 is the marketing-leading, rotating screen, convertible notebook, which sets the benchmark in ruggedness.

Panasonic recommends Windows® 7.

### Mobile Computing Platform

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Core™ i5-3320M vPro™ processor</td>
<td>3rd generation Intel® Core™ i5-3320M processor with vPro™ technology.</td>
</tr>
</tbody>
</table>

### Operating System

Genuine Windows® 7 Professional

### RAM

- 4 GB, DDR3 1333Mmax. (8 GB)

### Graphic Chip

Intel® HD Graphics 4000, UMA (Windows® 7 64-bit max 1696MB, 32bit max 1569MB)

### Storage

500GB HDD (SATA, easy accessible, shock resistant - withstands 180cm* drop)

### LCD

14.1" sunlight-viewable transflective plus XGA Active Matrix (1T7) colour LCD with circular polarizer (up to 500cd/m² transmission and 4.50cd/m² reflective brightness, depending on light conditions) and ambient light sensor; Concealed Mode

### Cabinet

Full magnesium alloy with handstrap

### Bluetooth™

Version 4.0 + EDR Class 1

### WLAN

Intel® Centrino® Advanced-N 6235 802.11 a/b/g/n compliant; slide on/off switch

### LAN

1000BASE-T/100BASE-TX/10Base-T

### Modem

Data : 56 kbps V.92; FAX : 14.4 kbps / voice not compatible

### Sound

Intel® High-Definition audio compliant

### Microphone

Monaural speaker (integrated in display cabinet)

### Input Devices

Touchscreen or Dual Touch (resistive Touchscreen & Digitizer), Touchpad and Keyboard

### Indicators

9 LEDs (Power, Battery, HDD, Caps Lock, Scroll Lock, Num Lock, SD Card, WLAN, Wireless Data Transfer)

### Interfaces

Serial (16550A compatible) Dual, 9-pin

External display (VGA port) Mini D-sub, 15-pin

Headphone Mini-jack, 3.5mm, stereo

Microphone Mini-jack, 3.5mm, stereo

DC in Jack

USB 2.0 x1, 4-pin

USB 3.0 x1, 9-pin

Modem RJ-11

LAN RJ-45

Firewire (IEEE 1394a) x1, 4-pin

External Antenna: x2 (Dedicated 50 ohms coaxial connector)

Port Replicator: 108-pin

### Expansion Slots

PC Card: x1 Type II (1.3V, 400mA, 5V, 400mA)

Express Card: x1 ExpressCard24 or ExpressCard54

SDD/MC Memory Card: x1

RAM Module: x1 DDR3/4

### Power

AC Adapter: Input: 100 – 240V AC, 50Hz/60Hz; Output: 16V DC, 5A

Battery: Li-ion 10.65V, 5.7Ah (Typical), 5.4Ah (Minimum)

Battery Life: Approx. 10 hours (Mobile Mark™ 2007, 60cd/m²)

### Power Management

Standby function, Hibernation function, ACPI BIOS

### Security Features

TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security

### Dimensions (WxHxD)

271mm x 49mm x 216mm / 10.7" x 1.93" x 8.5" (excluding protrusions)

### Weight

Approx. 2.3kg / 5.0lb (including battery)

### Integrated Options

GPS, Fingerprint Reader, Smart Card Reader, 3G Mobile Broadband (HSPA+), up to 21Mbps, Solid State Disk, Bottom 3MP camera with dual LED light (Project based)

### Accessories

AC Adapter: CT-AA650A

Battery Charger: CT-VCB183W

Battery Pack: CT-VZSU48U

Car-Charger: CT-AA1601W (Type A, 60W,12V/24V)

Car-Mount: CT-WEB14AB

Port-Replicator: CT-VCB911A

Carrying and CDS Docking Solutions: Please visit www.toughbook.eu

### Testing Standards

Water resistance test: IECS279 (JIS C9920) IPX5*, MIL-STD B110G 566.5, III*

Dust resistance test: IECS279 (JIS C9920) IPX7*, MIL-STD B110G 516.6, Level**

Gravity drop resistance test: MIL-STD B110G 516.6, (10cm* drop)

Vibration resistance test: MIL-STD B110G 516.6, category 2B & 24*

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As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. The ENERGY STAR® program for computers is a joint effort between the U.S. Environmental Protection Agency and the U.S. Department of Energy aimed at saving money and protecting the environment through energy efficient products and practices.

For more information, please visit www.energystar.gov.

* Tested by an independent third-party lab following EEC 60950, sections 13.4, 13.6.2, 14.2.5, 14.3

** 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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