

Rugged
Mobility

Panasonic CF-19 Toughbook

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For More Information Visit www.ruggedmobility.com.au

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The Fully Rugged Toughbook, for when failure is not an option

With unrivalled durability and world-class heritage, the CF-19 is one of the most dynamic and versatile convertible tablet PCs in the field. The rugged ratings for Fully Rugged Toughbook will change the way you view mobile PCs. Drop, shock, moisture, dust, temperature, pressure and vibration-resistant technology has been increased to Mil-STD-810G and IP65 standards. With world-class wireless connectivity, it is perfect for mobile field workers for when failure is not an option.

Two computers are better than one

This robust Toughbook features a revolutionary LCD screen that transforms from a high-performance notebook to a portable tablet PC - all you have to do is tilt the pivoted 10.4" XGA display over the keyboard. The optimised display technology with extra low reflection rate ensures excellent clarity of display even in bright ambient light.

Lightweight, yet rugged enough to survive extreme conditions

Weighing in at just 2.3 kg, the CF-19 is light enough to take anywhere and even the most intense environments are no match for this durable Toughbook. The LCD is protected by a scratch-resistant magnesium alloy case and the hard drive is enclosed in a shock-absorbing damper, while a flexible elastomeric sealant ensures that all key areas of the casing meet IP65 water and dust-resistance standards.

High performance and long battery life allow mobile professionals to go further

The integrated Intel® Core™ i5-520M Processor technology promises the highest performance with efficient energy consumption, and the high-performance lithium-ion battery provides an operating time of up to nine hours. Thanks to our own anechoic chamber, the dual diversity wireless antennae in the display housing are highly tuned to deliver optimum data transfer, enabling you to stay connected at all times.

Ruggedisation

MILITARY STANDARDS

MIL-STD-810G certified¹

MIL-STD-461E certified¹

IP65 certified sealed all-weather design

Drop Shock Rating (cm) 180

Spill Proof: Yes

OTHER DURABILITY FEATURES

- UL1604 class 1 division 2, groups ABCD certified model
- CCX Certified v4
- Hard drive heater
- Full magnesium alloy case with hand strap
- Shock-mounted flex-connect hard drive with quick-release
- Reinforced locking port covers
- Pre-installed replaceable screen film for LCD protection
- LCD mounting protection
- Anti-glare screen treatment



Specifications

SOFTWARE

- Genuine Windows® 7 Professional 32-bit² or Genuine Windows® 7 Professional 64-bit² (Downgrade option to Genuine Windows® XP Professional Service Pack with Advanced Security Technologies)
- Panasonic Utilities, Recovery Partition

FEATURES

CPU

- Intel® Core™ i5-3320M vPro™ Processor
- 2.6GHz with Turbo Boost up to 3.3GHz
- Intel® Smart Cache 3MB

STORAGE & MEMORY

- 4GB SDRAM (DDR3L-1333MHz) standard, expandable to 8GB^{4,5}
- 500GB 7200rpm hard drive (shock-mounted flex-connect with quick-release)⁵
- Optional 128GB and 256GB reinforced flex-connect solid state drives (SSD)⁵

DISPLAY

- 10.1" XGA sunlight-viewable LED 1024 x 768 (touchscreen or optional dual touch)
- TransflectivePlus and Panasonic CircuLumin™ technology
- 1-6000 nit (depending on lighting conditions and settings)⁶
- AR, AG and circular polarizer
- Intel® HD Graphics 4000 video controller, max. 1544MB shared VRAM with 32-bit4
- External video support up to 1280 x 1024 at 16.7 million colours
- Concealed mode (configurable)

AUDIO

- Intel® high-definition audio compliant
- Integrated speaker
- Keyboard volume and mute controls

KEYBOARD & INPUTS

- Touchscreen or dual touch (touchscreen and digitizer models)
- Integrated stylus holder
- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support

EXPANSION SLOTS

- PC card type II x 1
- SD card (SDXC)
- ExpressCard/54 x 1

- Fully Compliant to MIL-STD-810G and 461E
- Water and Dust Resistant to IP65
- Fully Rugged – drop resistant to 1.8m
- Bright Light Viewable Screen with dual touch capability
- Easily Removable, Shock Mounted Hard Drive

INTERFACE

- Docking connector - Dedicated 100-pin
- VGA - D-sub 15-pin
- Headphones/speaker - Mini-jack stereo
- Microphone/line in - Mini-jack stereo
- Serial - D-sub 9-pin
- Ext. antenna conn. (x 2) - 50 ohm coaxial
- USB 3.0 (x 1), USB 2.0 (x 1)
- IEEE 1394a (FireWire) - 4-pin
- 10/100/1000 Ethernet - RJ-45
- 56K Modem - RJ-11

WIRELESS

- Optional integrated 4G LTE mobile broadband
- Optional integrated 3G Gobi™3000 mobile broadband
- Intel® Centrino® Advanced-N 6235 802.11a/b/g/n
- Bluetooth® v4.0 + EDR (Class 1)
- Security
- Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
- Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Dual high-gain antenna pass-through
- Slide on/off switch

POWER SUPPLY

- Lithium ion battery pack (10.65V, typical 5700mAh, minimum 5400mAh)
- Battery operation: 10 hours (touchscreen), 9.5 hours (dual touch)⁷
- Battery charging time: 3.5 hours⁷
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

POWER MANAGEMENT

Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS⁸
- Intel® Anti-Theft Technology
- Optional fingerprint reader
- Optional SmartCard reader

GENERAL

Dimensions - D x W x H (mm) 216 x 271 x 49

Weight (kg) 2.3

Warranty 3-year limited warranty, parts and labour

INTEGRATED OPTIONS¹⁰

- 4G LTE mobile broadband
- 3.0MP camera with auto focus and dual LED light¹⁰
- 3G Gobi™3000 mobile broadband (EV-DO Rev. A, HSPA)
- GPS receiver
- Backlit keyboard – Sealed rubber or plastic emissive
- SmartCard reader
- Fingerprint reader
- HDD and battery lock

Please consult your reseller or Panasonic representative before purchasing.

1Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

2A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

3An Intel Core i7 processor is also available.

4Total usable memory will be less depending upon actual system configuration.

Maximum of 4GB of memory when equipped with camera. Windows 7 64-bit max.

VRAM is 1696MB.

1GB = 1,000,000,000 bytes.

61000 nit without ambient light assistance. Up to 6000 nit in clear, sunny condition under direct sunlight.

7Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences.

Battery testing results from MobileMark 2007.

8Requires software and activation to enable theft protection.

9Accessories and Integrated Options may vary depending on your notebook configuration.

Visit Panasonic website for more accessories and details.

10Camera replaces the second memory slot located on the bottom of the PC

ACCESSORIES⁹

- AC Adapter (3-prong) CF-AA6503A2M
- Lithium Ion Battery Pack CF-VZSU48U
- Battery Charger CF-VCBTB2W
- LIND 5-Bay Battery Charger PACH518-1858-P
- LIND Car Adapter 120W CF-LNDDC120
- Memory Cards - 4GB DDR3 - CF-WMBA1004G
- Desktop Dock CF-VEB191AU
- Vehicle Dock – No pass-through - See Dealer – Dual pass-through - CF-WEB194AC
- Dual Touch Replacement Stylus CF-VNP012U
- LCD Protector Film for Touchscreen and Dual Touch CF-VPF11U