



## Panasonic CF-52 Info Pack

# CF-52

Rugged Notebook

### Introduction

The Panasonic Toughbook CF-52 is an ideal all-purpose notebook for use on the move or in the office. Top performance paired with tried and tested Toughbook robustness via a magnesium case together with an integrated carry handle - the CF-52 combines everything professional users need whilst travelling. A semi-rugged solution compliant to Mil-Std 810F, the CF-52 is the ideal solution for semi-rugged use.



Featuring Intel Core Duo Technology the CF-52 allows for greater flexibility and guarantees optimal WLAN reception with two integrated antennas. This latest technology contributes to a running time of up to 5 hours with the CF-52's long-life battery.

The industrial-design magnesium-alloy top panel excellent protection against all manner of harsh environments. All of the ports on the back and sides are protected behind hinged plastic doors.

The CF-52 is based around a 1.6-GHz Intel Core Duo processor and an 80GB hard drive, however a wealth of additional wireless connectivity options are also available to expand its operational performance.

## Widescreen Display

The CF-52 is supplied with a bright LCD display as standard, or an optional sunlight readable touch screen LCD display. The bright WXGA resolution display is comparable to desktop computer screens. Presentations and high grade graphics are perfectly displayed by a high resolution 15.4 inch WXGA.

The screen itself has an extra bright active matrix (TFT) colour LCD panel surrounded with dampers and mounted in a shock absorbing magnesium display casing.

Normally, a standard LCD is often difficult to view due to reflections from direct sunlight and its low brightness. The CF-52 sunlight readable option increases the LCD brightness by improving efficiency of the LCD backlight without increasing power consumption. Reflections caused by direct sunlight or other light sources are simultaneously reduced. By combining these two enhancements, the CF-52 sunlight readable LCD can meet the requirements for rugged use.

## Rugged Design

As a Toughbook, the CF-52 boasts a range of "ruggedised" features protecting its key components from damage: The display is surrounded by dampers and is mounted in a durable magnesium casing. The hard disk drive is embedded in a shock-absorbing foam and is connected to the motherboard by flexible cabling.



Tested according to strict MIL-STD 810F specifications, the sensitive components in the CF-52 are fully protected from vibration and shock. The CF-52 has been tested to withstand drops of up to 2.5 feet on all six sides, while its hard drive is tested to withstand a drop of 3 feet.

The spill-resistant keyboard and touchpad is an additional protective feature. A membrane beneath the keyboard keeps it waterproof.



## Connectivity

This semi-ruggedized Toughbook is also extremely easy to connect: USB 2.0, Firewire (IEEE 1394), serial connection and SD and PC card slot are provided as standard. In addition to Bluetooth® and WLAN (standard), as an option a UMTS/HSDPA module can also be integrated as an additional wireless solution. From the integrated DVD Multi Drive you can play elaborate graphics and extensive product presentations and they will come to life perfectly on the 15.4 inch widescreen LCD.

The ports and connectors on the CF-52 are protected by solid plastic hinged covers. The plastic covers are designed to protect single connectors and close with a gentle push.



## Security

To safeguard valuable data and enable customers to comply with increasing data security regulations, the CF-52 is equipped with the Trusted Platform Module (TPM v1.2) security chip, the Computrace software agent in BIOS and an optional fingerprint scanner and SmartCard reader.

Trust Platform Module (TPM) is a micro controller that follows the standard formed by Trusted Computing Group (TCG) in enhancing security by combining software and hardware functions to encrypt and decrypt protected files. A user can apply a private key and a public key simultaneously for double protection. This gives the user the ability to share files without being exposed to other unauthorized users. The M230's TPM 1.2 security solution provides complete security from theft or software attack.

Using TPM, the user may lock files on the hard disk by the private key generated by the TPM micro-controller, and the user sets the password.

The private key is unique and cannot be duplicated. In the event of a file being lost or stolen, the file cannot be opened since the password and private key will not be available. Even if the password is available, the file will remain inaccessible because the private key cannot be duplicated. If a user wishes to release protected files to authorized personnel, the unauthorised user can request a public key from the authorised user to lock and unlock the file. The public key can be transmitted via the internet without risk from hackers.

## Key Features of the CF-52

- Intel Centrino 2 Duo Mobile Technology
- Reliable, semi-rugged desktop alternative
- 15.4" WXGA Widescreen display 1280 x 800 pixels
- Full magnesium alloy case with handle
- Shock-mounted, removable hard drive
- Spill-resistant keyboard and touchpad
- Wide area wireless-ready design
- Durable and convenient in the field
- Withstands drops from a height of 76cm
- Internal DVDRW +/- optical drive
- Weight: 3.2kg (with handle)

## CF-52 Port Layout

