



Esis Pty Ltd
Ph 02 9481 7420
Fax 02 9481 7267
www.esis.com.au

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TOUGHBOOK CF-C1 KEY PRODUCT FEATURES

WHAT MAKES THE WORLD'S LIGHTEST BUSINESS RUGGED
CONVERTIBLE TABLET UNIQUE IN THE MARKET?



**Protect.
Manage.**

TOUGHBOOK When it's worth doing better.

TOUGHBOOK CF-C1 BUSINESS RUGGED CONVERTIBLE TABLET PC.

Combining ground-breaking ergonomics, rugged design and outstanding performance, the Toughbook CF-C1 redefines the way mobile professionals operate, allowing them to be more productive than ever before.

As the lightest business rugged convertible tablet in the market, offers all of the portability and usability of a tablet PC, along with the desktop-standard performance and unique designed features.



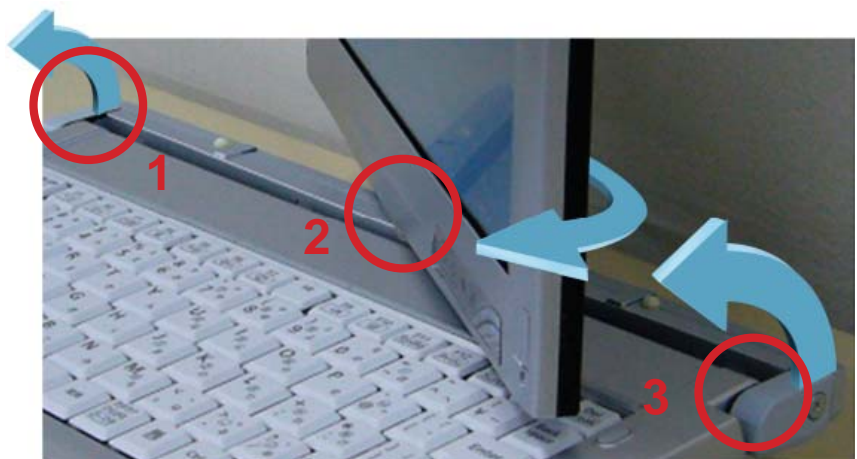
HINGE DESIGN

The triple-hinge design has an additional hinge support, placed between two side hinges to take care of opening and closing the display.

Above that is a centre hinge that takes care of rotation. Since the twisting stress applied to the cabling that connects the monitor to the PC has been dispersed, cable severance is far less likely.

Even in clam-shell mode, the CF-C1 remains stable and enables the user to work more efficiently. Due to higher reliability, the failure rates of the CF-C1 are lowered, and the total cost of ownership over the complete notebook lifecycle is significantly lower than on a model with single 3D hinges.

TOUGHBOOK CF-C1 TRIPLE-HINGE DESIGN



WHY IS IT AN ADVANTAGE?

- Increased stability and higher user comfort
- Longer product lifecycle and higher MTBF (mean time between failures) score on hinge
- Efficient and stable working in 'clam-shell mode' – in the style of a sub-notebook

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HANDSTRAP



The 'hand-free' ergonomic strap is unique and designed as part of Panasonic's 'Universal Design' commitment to creating product features which are optimised for ergonomics and daily use.

The strap fits exactly into the user's hand, with an oval opening which accommodates the back of the hand and a built in hand-dome which functions as a hand rest. Thanks to this, you can hold the CF-C1 in one hand, either in landscape or portrait mode. This delivers the full flexibility of a convertible PC without generating user discomfort, even when used for long periods of time.

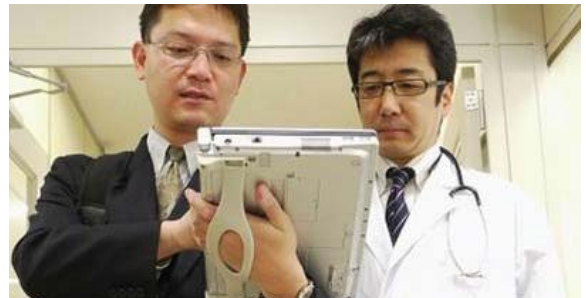
The strap also helps to prevent any unintentional drops and provides an integrated 'easy-carry' solution for the user.

TOUGHBOOK CF-C1

'HAND-FREE' ERGONOMIC STRAP



LANDSCAPE



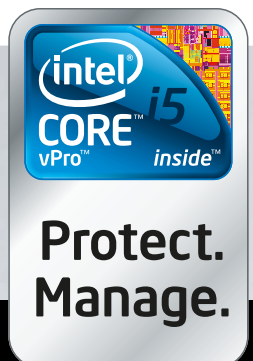
PORTRAIT



HAND-FREE ERGONOMIC STRAP

WHY IS IT AN ADVANTAGE?

- Allows for convenient single-hand usage in working environments
- Protects against accidental drops
- Integrated 'easy-carry' solution



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BATTERIES

TOUGHBOOK CF-C1

HOT-SWAPPABLE, HIGH-CAPACITY TWIN BATTERY



WHY IS IT AN ADVANTAGE?

- Rapid-charge function, combined with twin algorithm charging and discharging cycles
- Easy swap-outs in the field without downtime (allows day-long usage)
- Convenient battery status check even in OFF mode (status LEDs on CF-C1).

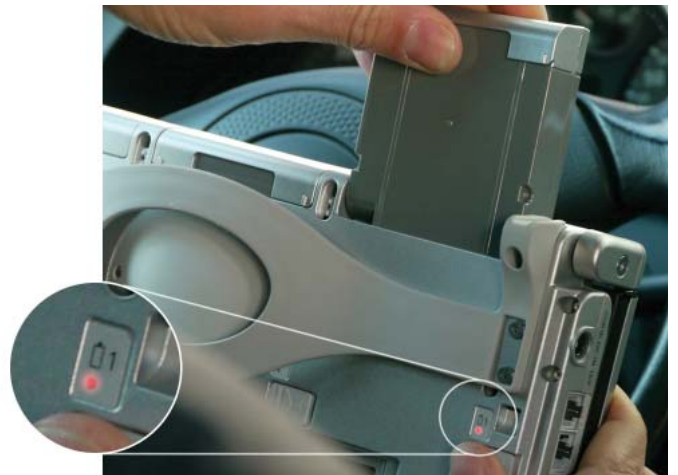
With the twin hot-swappable battery, the battery can be changed even during usage. This feature makes it unnecessary to turn off the power, so you can work continuously and more productively.

Panasonic-Sanyo's Lithion-Ion battery technology, with its focus on high-energy density and high voltage, makes the CF-C1 twin batteries smaller, thinner and more compact than ever.

To provide maximum security, it incorporates the Panasonic-Sanyo heat resistance layer technology. This increases energy density and safety, by forming a heat-resistant layer consisting of an insulating metal oxide on the surface of the electrodes.

Convenient bottom battery status LEDs, battery ECO-mode and rapid charge function complete the battery portfolio.

The twin battery mechanism and a complex power algorithm supply long-lasting, stable power with flat voltage discharge. This means the twin batteries offer an excellent charging and discharging profile, resulting in long battery life cycles and ultimately, TCO.



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HARD DISK DRIVE (HDD)

TOUGHBOOK CF-C1

HDD CAN EASILY REMOVED FROM NOTEBOOK



EASY REMOVABLE HDD BATTERY PACK



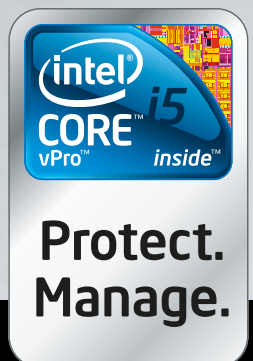
The HDD can be removed/inserted from the body in OFF mode, protecting data from theft when working away from the office.

In multi-shift environments, the HDD can be exchanged at the end/beginning of a shift so that every employee can have their own environment user profile and data.

The HDD can be removed easily, without unlocking any screws. This makes it ideal for end user swap outs by easing service processes without the need for HDD replication.

The end user can continue to work in the case of a damaged unit (sent to repair) with his own HDD (including the stored data) with any other back-up CF-C1. This reduces downtime and service costs.

The CF-C1 HDD is surrounded with Panasonic super-rubber-foam, embedded in an aluminium case with flexible connectors, providing compact, rugged and safe housing and storage of customer data in every situation.



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LCD LOCK

TOUGHBOOK CF-C1 LCD ROTATION LOCK



The CF-C1 has an LCD rotation lock to prevent any unintentional display turning and to increase stability when using the touchscreen in notebook mode.

This feature increases productivity for employees who prefer to work with the CF-C1 in clam-shell mode, using the sub-notebook style.

This means the user has the flexibility and freedom to choose how to use the CF-C1 in every situation, maximising the convertible form factor.



WHY IS IT AN ADVANTAGE?

- Provides the ultimate in user flexibility and freedom
- Longer product lifecycle and higher MTBF (mean time between failures) score on hinge
- Efficient and stable work in every mode.

ACCIDENTAL DAMAGE WARRANTY

TOUGHBOOK CF-C1

TWO YEARS' COVERAGE AS STANDARD



The warranty covers a complete range of damage: non-intentional liquid spills, drops, falls, collisions and electrical surges and even covers damaged or broken LCD displays.

The accidental damage cover complements Panasonic Toughbook's existing three-year warranty against material and manufacturing faults. The repair or even replacement of a CF-C1 is free-of-charge if it is accidentally damaged within two years of purchase.

With this, the CF-C1 carries standard premium service coverage which reduces downtime and administration of workflows. It also gives procurement additional TCO advantages, by streamlining out-of-warranty coverage charges, frees time for service teams through superior repair procedures.

WHY IS IT AN ADVANTAGE?

- Increased workforce uptime and productivity
- Transparent and efficient management of service budgets
- TCO advantages and minimization of service provisions

MOBILITY

TOUGHBOOK CF-C1

LIGHTEST BUSINESS CONVERTIBLE IN THE MARKET

$$\frac{\text{BATTERY TIME (HOURS)}}{\text{WEIGHT (KG)}} = \text{MOBILE FACTOR}$$

$$\text{CF-C1} = \frac{10}{1.69} = 5.9$$

WHY IS IT AN ADVANTAGE?

- Day-long battery performance
- Compact, light and flexible

Some convertible PC users sacrifice operating time for lightweight mobility, whereas others are willing to accept extra weight if it means they can use the computer for longer periods.

However, the CF-C1 has no limitation and provides both lightweight mobility and market-leading battery time. It comes with two twin batteries (each four cell), delivering a total battery life of up to 10 hours, at a weight of just 1.69kg.

Due to the twin battery technology, the user can decide to use the CF-C1 with a single twin-battery only – providing more than 5 hours battery life, together with an amazing weight of 1.49kg only – and it's this that makes the CF-C1 the lightest 12" business convertible in the market.

The 'mobility factor' of a device is calculated by dividing the battery life by weight (eg. CF-C1: 10/1.69 = 5.9 points). Looking at this calculation, the CF-C1 provides the best package, balancing weight and battery time to result in ultra-compact, mobile and flexible product design.

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RESISTIVE MULTI-TOUCH

TOUGHBOOK CF-C1 RESISTIVE MULTI-TOUCH



Resistive touchscreen panels work well with almost every stylus-like object and are not affected by outside elements, such as dust or water. They can be controlled even with gloves and provide the ideal companion for any rugged PC.

In combination with the multi-touch functionality, which allows two or more fingers to be used on the screen at one time (pinching and stretching gestures), the CF-C1 provides full Windows® 7 surface capabilities together with pressure-sensitive outdoor characteristics.

WHY IS IT AN ADVANTAGE?

- Less affected by dust or water
- Every stylus-like object can be used to operate the panel
- Provides a combination of sensitive multi-finger usage and tougher gloved pressure touch



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PROCESSOR

Toughbook CF-C1

Intel® Core™ i5 520M standard voltage



The Panasonic-designed heat management system and the Intel® small form factor CPU-BGA implementation allows the CF-C1 to run with a standard voltage Core™ i5 CPU. This is instead of a low or ultra-low voltage CPU.

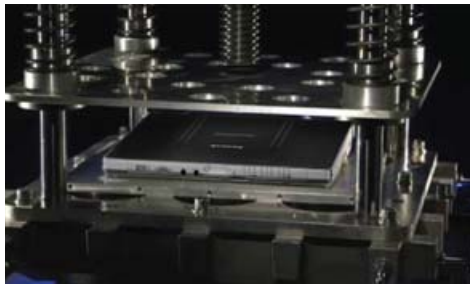
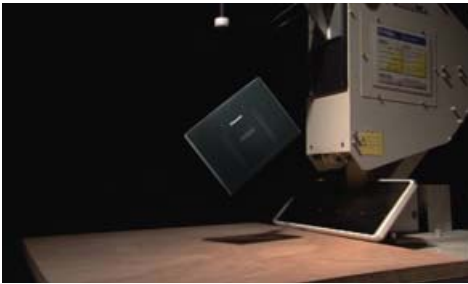
WHY IS IT AN ADVANTAGE?

- The standard voltage CPU can be integrated due to the Panasonic-designed heat management system
- Small form factor implementation (BGA)

RUGGEDIZATION

TOUGHBOOK CF-C1

76CM DROP, 200ML WATER, 100KG FORCE



Engineered from the inside-out, the Toughbook CF-C1 is made for corporate usage, with its design based on customer advisory feedback. This is allied to more than 15 years' experience in the production of ultra- and fully rugged PCs.

The CF-C1 is made out of a thin ultra-flexible magnesium-alloy casing, combined with flexible mounted display and PCB, as well as shock-mounted HDD. Consequently, it can survive a drop on its base of 76cm, 200ml water on the keyboard/touchpad and 100kgf distributed evenly across the lid.

All this gives the CF-C1 business-like protection which keeps failure rates to a minimum.

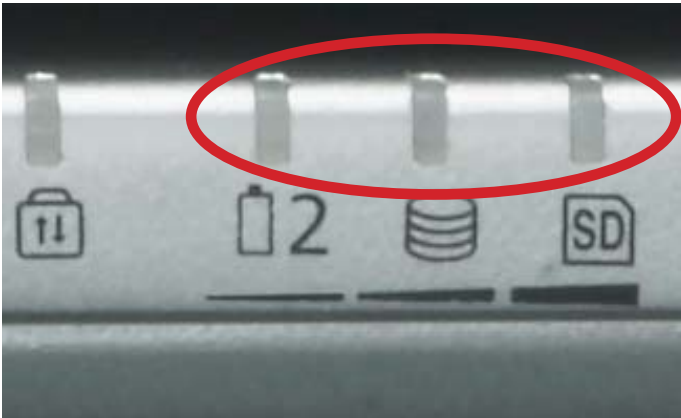
WHY IS IT AN ADVANTAGE?

- Ruggedness results in higher workforce productivity due to less downtime and data loss
- Thanks to the lowest possible failure rates, the ruggedness of the CF-C1 represents the ultimate TCO argument
- Secure and safe even under the stresses of daily mobile life

CHARGE CAPACITY INDICATORS

TOUGHBOOK CF-C1

THREE LEDS WITH FOUR CHARGE LEVELS



On the CF-C1, for each battery, there are three LEDs which can indicate up to 4 charge levels, at the front edge of the case. Thanks to this technology, at a glance you can tell how much power you have in each battery. This is a very useful function if you have to quickly choose, from a number of computers, which unit to use, which unit should be selected.

If a number of units are on charging on a rack in a multiuser environment the user may have to choose which one to take to work. If the charge state is not clearly indicated on each of the different machines, selection has to be done by guesswork, and if a machine with insufficient charge is chosen, the battery may die during offsite user duties.

With the CF-C1 the charge state indicator system immediately shows how much power each unit has and therefore ensures a quick and efficient battery device management.

WHY IS IT AN ADVANTAGE?

- Fine-tuned and convenient battery management
- Critical feature in multi-user environment
- Time is saved when batteries are swapped

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**TOUGH MOBILE CONVERTIBLE TABLET PC WITH
DIGITIZER AND MULTI TOUCH SCREEN.**

Combining ground-breaking ergonomics, rugged design and outstanding performance, the Toughbook CF-C1 redefines the way mobile professionals operate, allowing them to be more productive than ever before. With a unique 'triple hinge' that enhances ruggedness and smoothness when the screen is rotated, and a 'hand-free' ergonomic strap that prevents drops and reduces stress on the user, it combines the portability of a tablet PC with the performance of a desktop PC.



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