

Panasonic recommends Windows.

**Panasonic**  
BUSINESS



# PANASONIC TOUGHBOOK & TOUGHPAD

THE PC & TABLET RANGE BUILT TO WORK WHERE YOU DO



**TOUGHBOOK**

**TOUGHPAD**



Panasonic recommends Windows.

# THE TOUGHBOOK & TOUGHPAD FAMILY BUILT FOR PURPOSE



## Screen Visibility

Field productivity demands high brightness displays, low screen reflection, the latest IPS technology, extra-wide viewing angles and high-contrast ratios. Together, they mean Toughbooks & Toughpads deliver more productive all-weather performance.



## Reliability & Durability

Fully rugged devices are engineered for IP65 resistance to dust, humidity and water, MIL-STD 810G certifications for drops, shock, vibrations, pressure and temperature, and MIL-STD-461F certification against electromagnetic interference. Panasonic Tough devices are supported with a minimum 3 year warranty, with 4 or 5 year support options.



## Vehicle Mounting

Panasonic Tough IT feature specialised vehicle mounts to stay connected to power and applications on the move. Optional Dual Pass Through functionality supports vehicle mounted antennas to connect more effectively, in more places, more often.



## Security

All Tough devices include unique features dedicated to enterprise level security, including Intel TPM™ or ARM TrustZone™



## Connectivity

Toughpads and Toughbooks are purpose built for field connectivity, with configuration options including 4G LTE, Dual Pass Through capabilities, WLAN, Bluetooth, GPS, USB, LAN, Serial and HDMI.



## Mobility

All tablets claim to offer mobility advantages. The Panasonic Tough range starts at just 540g (FZ-M1; FZ-B2) and features the FZ-G1 (world's slimmest, lightest fully-rugged 10.1" tablet) and the Toughbook CF-20 (world's thinnest, lightest fully rugged 2-in-1 tablet PC device).



## Voice Capability

The Toughpad FZ-X1 (Android) and FZ-E1 (Windows) feature voice capability with up to 1000 hours standby time, a triple microphone array, noise cancelling technology and 100 decibel speakers ensuring audio clarity even in noisy outdoor environments.



## Ease of Use

Panasonic's fully-rugged devices feature 10 finger multi-touch screens, which can be used in the rain, in extreme temperatures or while wearing gloves



## Extended Battery Performance

Long standard battery life, optional high-capacity batteries and hot swap capabilities mean your Panasonic Tough devices are ready when you are. For example, Toughbook CF-20 delivers up to 10 hours on one battery, 20 hours on two batteries or unlimited performance with its optional hot swap kit.

\*Features vary by model. Please check product brochures and spec sheets at [www.panasonic.com/au/business](http://www.panasonic.com/au/business)






# TOUGHBOOK & TOUGHPAD AT A GLANCE

2-IN-1

10.1" Fully Rugged 2-in-1

12.5" Semi Rugged 2-in-1

Model	CF-20	CF-19	CF-C2
			
Operating System	Windows 10 Pro	Windows 8.1 Pro	Windows 8.1 Pro
Processor	Intel® Core™ m5 6Y57 vPro™	Intel® Core™ i5 3610ME vPro™	Intel® Core™ i5 4310U vPro™
Display Size	10.1" WUXGA 1920x1080	10.1" XGA 1024x768	12.5" WXGA 1366x768
Display Features	IPS, 800 cd/m2, Glove Touch, Rain Touch	Up to 6500 cd/m2, Glove Touch, Rain Touch	IPS, 500 cd/m2
Daylight Readable	Yes	Yes	Yes
Memory	8Gb	4Gb	4Gb
Storage	256Gb SSD	500Gb HDD	500Gb HDD
Battery (Std)**	10 Hours	9.5 Hours	14 Hours
Battery (Optional)**	20 Hours	-	19 Hours
Hot Swappable Battery	Optional	-	Optional
Ruggedisation	Fully Rugged	Fully Rugged	Semi Rugged
Chassis	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Ruggedisation	MIL-STD-810G, IP65, 120cm drop, -10°C to +50°C, MIL-STD-461F	MIL-STD-810G, IP65, 180cm drop, -10°C to +50°C, MIL STD 461F	100Kg Pressure, Spill resistant KB, 76cm drop
Dimensions	272 x 233mm x 33.5mm (Tablet+base) 272mm x 196mm x 16.4mm (Tablet only)	271mm x 216mm x 49mm	299mm x 217mm x 25mm
Weight	1.76Kg (Tablet & Keyboard) 0.95Kg (Tablet only)	2.3Kg	1.81Kg
Configuration Options	8Gb Memory, Serial, BCR, 2nd USB, SCR, Fingerprint, 2nd Battery, Hot Swap Battery	8Gb Memory, 128 & 256Gb SSD, Rear Camera, GPS, Fingerprint, Backlit KB	VGA, Serial, Modem, Rear Cam, NFC, SmartCard, ExpressCard, Large Battery, Hot Swap Battery

\*\*2007Mark Testing Standard





## NOTEBOOK

## HANDHELD

### 13.1" Fully Rugged Notebook

### 14" Semi-Rugged Notebook

### 5" Fully Rugged Handheld Tablet (Android & Windows)

**CF-31**

**CF-54**

**CF-53**

**FZ-X1**

**FZ-E1**



Windows 10 Pro

Windows 10 Pro

Windows 8.1 Pro

Android 4.2.2

Windows Embedded 8.1 Handheld

Intel® Core™ i5 5300 vPro™

Intel® Core™ i5 6300 vPro™

Intel® Core™ i5 4310 vPro™

Qualcomm® APQ8064T

Qualcomm® MSM8974AB

13.1" XGA 1024x768

14" Full HD 1920x1080

14" HD 1366x768

5" HD 1280x720

5" HD 1280x720

1200 Nit, Glove Touch; Rain Touch

IPS, 1000 cd/m2 (Touchscreen model)

IPS, 1000 cd/m2 (Touchscreen model)

500 cd/m2, Glove Touch, Rain Touch

500 cd/m2, Glove Touch, Rain Touch

Yes

Yes

Yes

Yes

Yes

4Gb

8Gb

4Gb

2Gb

2Gb

500Gb HDD

500Gb HDD

500Gb HDD

32Gb eMMC

32Gb eMMC

18 Hours

11 Hours

15 Hours

14 Hours (1000 Hours stand-by)

14 Hours (1000 Hours stand-by)

27 Hours (2nd Battery)

18 hours (2nd battery)

-

28 Hours

28 Hours

-

Optional

-

Optional

Optional

Fully Rugged

Semi-Rugged

Semi-Rugged

Fully Rugged

Fully Rugged

Magnesium Alloy

Magnesium Alloy

Magnesium Alloy

MIL-STD-810G, IP65, 180cm drop, -10°C to +50°C, MIL-STD-461F

Spill resistant KB, 76cm drop

Spill resistant KB, 76cm drop

MIL-STD-810G, IP68, 3m drop, -20°C to +60°C, MIL-STD-461F

MIL-STD-810G, IP68, 3m drop, -20°C to +60°C, MIL-STD-461F

302mm x 292mm x 73.5mm

272mm x 345mm x 30mm

281mm x 340mm x 48-55mm

87.4mm x 165mm x 30.9mm

87.4mm x 165mm x 30.9mm

3.72Kg

1.9Kg (Performance) 2.1Kg (Touchscreen)

2.65Kg (Standard) 2.95 (Touchscreen)

0.432Kg (with BCR)

0.432Kg (with BCR)



## TABLET

### 7" Fully Rugged Tablet (Windows & Android)

### 10.1" Fully Rugged Tablet

#### FZ-M1

#### FZ-M1V

#### FZ-B2

#### FZ-G1



Windows 10 Pro

Windows 10 Pro

Android 4.4

Windows 10 Pro

Intel® Core™ m5 6Y57 vPro™

Intel® Atom™ x5 Z8550

Intel® Atom™ x5 Z8550

Intel® Core™ i5 6300U vPro™

7" WXGA 1280x800

7" WXGA 1280x800

7" WXGA 1280x800

10.1" WUXGA 1920x1080

IPS, 500 cd/m2, Glove Touch, Rain Touch

IPS, 500 cd/m2 ; Glove Touch; Rain Touch

IPS, 500 cd/m2 ; Glove Touch; Rain Touch

IPS, 800 cd/m2 ; Glove Touch; Rain Touch

Yes

Yes

Yes

Yes

4Gb

4Gb

2Gb

8Gb

128Gb SSD

64Gb eMMC

32Gb eMMC

128Gb SSD

9 Hours

9 Hours

8 hours

14 hours

Optional 18 hours

Optional 18 hours

Optional 16 Hours

Optional 28 Hours

Optional

Optional

Optional

Optional

Fully Rugged

Fully Rugged

Fully Rugged

Fully Rugged

Magnesium Alloy

Magnesium Alloy

Magnesium Alloy

Magnesium Alloy

MIL-STD-810G, IP65 fanless, 150cm drop, -10°C to +50°C

MIL-STD-810G, IP65 fanless, 150cm drop, -10°C to +50°C

MIL-STD-810G, IP65 fanless, 150cm drop, -10°C to +50°C

MIL-STD-810G, IP65 fanless, 120cm drop, -10°C to +50°C, MIL-STD-461F

203mm x 132mm x 18mm

203mm x 132mm x 18mm

203mm x 132mm x 18mm

270mm x 188mm x 19mm

0.54Kg

0.54Kg

0.54Kg

1.1Kg

8Gb Memory, 256Gb SSD, SmartCard, NFC, MCR, SD Card, BCR, LAN, Serial, GPS, 4G, Hot Swap Battery

SmartCard, NFC, SD Card, BCR, LAN, USB, GPS, 4G, Hot Swap Battery

Large battery, Hot Swap Battery, 4G, GPS, SmartCard, BCR

8Gb Memory, 512Gb SSD, GPS, 4G, USB, LAN, MicroSD, SmartCard, Hot Swap Battery





#1

Global leader in rugged notebooks and tablets that raise productivity and lower TCO over 15% annually.

The world's thinnest, lightest, fully rugged devices

**THINNEST**



**RUGGED**

MIL-STD-810G, 461F, IP65 certified against drops, weather, humidity, dust, vibration, temperature, altitude.

The only major manufacturer that designs, builds and tests its laptops and most components

**INHOUSE**



**The Australian mobility market will reach \$4.9 billion in 2019**

With 95 years of serving customers, 20 years of computer expertise and industry-leading customer loyalty, Panasonic achieves more rugged PC deployments at larger organisations than any other brand.



**84%**

of Australian organisations already have regular remote staff

8 in 10 devices for mobile workers are exposed to stressors



7 in 10 devices that fail in the field, fail in a protective case



**MAKE THE RIGHT MOBILE DEVICE CHOICE.  
TALK TO PANASONIC TODAY.**

For expert advice on choosing the most suitable tablet for your business, contact Panasonic. Our team of experts will help you make the best possible decision, only recommending solutions that fit your needs precisely.

Visit [www.toughbook.com.au](http://www.toughbook.com.au)



Telstra documented a **91%** reduction in field failure rates implementing fully-rugged Panasonic IT



Fully rugged IT uplifts productivity e.g. Ergon Energy estimate it frees 45 minutes per worker per day



Featuring daylight readable, all-weather, glove-friendly, for field productivity.

**TOUGHBOOK**

**TOUGHPAD**