

Panasonic recommends Windows 10 Pro.

Panasonic
BUSINESS



PANASONIC TOUGHBOOK & TOUGHPAD

THE PC & TABLET RANGE BUILT TO WORK WHERE YOU DO



TOUGHBOOK

TOUGHPAD

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.



Mobility

All tablets claim to offer mobility advantages. The Panasonic Tough range starts at just 432g (FZ-X1 & FZ-E1) and features the FZ-G1 (world's slimmest, lightest fully-rugged Windows Pro 10.1" tablet) and the Toughbook CF-20 (world's thinnest, lightest fully rugged Windows Pro 2-in-1 tablet PC device).



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.



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.



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.



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



Security

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



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.



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.

*Features vary by model. Please check product brochures and spec sheets at 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

13.1" Fully Rugged Notebook

Model	CF-20	CF-C2	CF-31
			
Operating System	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro
Processor	Intel® Core™ m5 6Y57 vPro™	Intel® Core™ i5 4310U vPro™	Intel® Core™ i5 5300 vPro™
Display Size	10.1" WUXGA 1920x1080	12.5" WXGA 1366x768	13.1" XGA 1024x768
Display Features	IPS, 800 cd/m2, Glove Touch, Rain Touch	IPS, 500 cd/m2	1200 Nit, Glove Touch; Rain Touch
Daylight Readable	Yes	Yes	Yes
Memory	8Gb	4Gb	4Gb
Storage	256Gb SSD	500Gb HDD	500Gb HDD
Battery (Std)**	10 Hours	14 Hours	18 Hours
Battery (Optional)**	20 Hours	19 Hours	27 Hours (2nd Battery)
Hot Swappable Battery	Optional	Optional	-
Ruggedisation	Fully Rugged	Semi Rugged	Fully Rugged
Chassis	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Ruggedisation	MIL-STD-810G, IP65, 120cm drop, -10°C to +50°C, MIL-STD-461F	100Kg Pressure, Spill resistant KB, 76cm drop	MIL-STD-810G, IP65, 180cm drop, -10°C to +50°C, MIL-STD-461F
Dimensions	"272 x 233mm x 33.5mm (Tablet+base) 272mm x 196mm x 16.4mm (Tablet only)"	299mm x 217mm x 25mm	302mm x 292mm x 73.5mm
Weight	"1.76Kg (Tablet & Keyboard) 0.95Kg (Tablet only)"	1.81Kg	3.72Kg
Configuration Options	8Gb Memory, Serial, BCR, 2nd USB, SCR, Fingerprint, 2nd Battery, Hot Swap Battery	VGA, Serial, Modem, Rear Cam, NFC, SmartCard, ExpressCard, Large Battery, Hot Swap Battery	2nd Battery, 8Gb Memory, SSD, Backlit KB, Webcam, 2nd LAN, SCR, Fingerprint, Firewire

**2007Mark Testing Standard



NOTEBOOK		HANDHELD		TABLET
14" Semi-Rugged Notebook		5" Fully Rugged Handheld Tablet (Android & Windows)		7" Fully Rugged Tablet (Windows & Android)
CF-54	CF-53	FZ-X1	FZ-E1	FZ-M1V & FZ-M1
				
Windows 10 Pro	Windows 10 Pro	Android 5.1.1	Windows Embedded 8.1 Handheld	Windows 10 Pro
Intel® Core™ i5 6300 vPro™	Intel® Core™ i5 4310 vPro™	Qualcomm® APQ8064T	Qualcomm® MSM8974AB	Intel® Atom™ x5 Z8550 (FZ-M1V) Intel® Core™ m5 6Y57 vPro™ (FZ-M1)
14" Full HD 1920x1080	14" HD 1366x768	5" HD 1280x720	5" HD 1280x720	7" WXGA 1280x800
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	IPS, 500 cd/m2 ; Glove Touch; Rain Touch
Yes	Yes	Yes	Yes	Yes
8Gb	4Gb	2Gb	2Gb	4Gb
500Gb HDD	500Gb HDD	32Gb eMMC	32Gb eMMC	64Gb eMMC (FZ-M1V) 128Gb SSD (FZ-M1)
11 Hours	15 Hours	14 Hours (1000 Hours stand-by)	14 Hours (1000 Hours stand-by)	9 Hours
18 hours (2nd battery)	-	28 Hours	28 Hours	Optional 18 hours
Optional	-	Optional	Optional	Optional
Semi-Rugged	Semi-Rugged	Fully Rugged	Fully Rugged	Fully Rugged
Magnesium Alloy	Magnesium Alloy			Magnesium Alloy
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	-
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	203mm x 132mm x 18mm
1.9Kg (Performance) 2.1Kg (Touchscreen)	2.65Kg (Standard) 2.95 (Touchscreen)	0.432Kg (with BCR)	0.432Kg (with BCR)	0.54Kg
DVD, 16Gb Memory, SSD, 2nd Battery, SmartCard, PC Card, 2nd LAN, GPS, 4th USB, Hot Swap Battery, Fingerprint, NFC	8Gb Memory, 128Gb SSD, Firewire, 2nd LAN, GPS, USB Fisher, SCR, Fingerprint, Backlit KB, HDD Heater	-	-	8Gb Memory, 256Gb SSD, SmartCard, NFC, MCR, SD Card, BCR, LAN, Serial, GPS, 4G, Hot Swap Battery



TABLET

7" Fully Rugged Tablet (Windows & Android)

10.1" Fully Rugged Tablet

"20" 4K Business Rugged Tablet

FZ-B2

FZ-G1

FZ-A2

FZ-Y1



Android 6.0

Windows 10 Pro

Android 6.0 (with Android for Work)

Windows 10 Pro

Intel® Atom™ x5 Z8550

Intel® Core™ i5 6300U vPro™

Intel® Atom™ x5 Z8550

Intel® Core™ i5-5300U vPro™

7" WXGA 1280x800

10.1" WUXGA 1920x1080

10.1" WUXGA 1920x1200

20" 4K 3840x2560

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

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

IPS, 800cdm2, Glove Touch, Rain Touch

IPS Alpha with sRGB colour, DICOM support and 4K input & output

Yes

Yes

Yes

Yes

2Gb

8Gb

4Gb

8Gb

32Gb eMMC

128Gb SSD

32Gb SSD

256Gb SSD

8 hours

14 hours

9 Hours

3 Hours

Optional 16 Hours

Optional 28 Hours

-

-

Optional

Optional

Optional

-

Fully Rugged

Fully Rugged

Fully Rugged

Business Rugged

Magnesium Alloy

Magnesium Alloy

Magnesium Alloy

Glass Fibre

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

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203mm x 132mm x 18mm

270mm x 188mm x 19mm

272mm x 196mm x 16mm

465mm x334 mm x 12.5mm

0.54Kg

1.1Kg

0.88 Kg

2.41Kg

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

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

LAN, BCR, Hot Swap Battery

VESA Mount compatible



#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.panasonic.com.au/toughbook



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