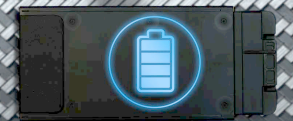
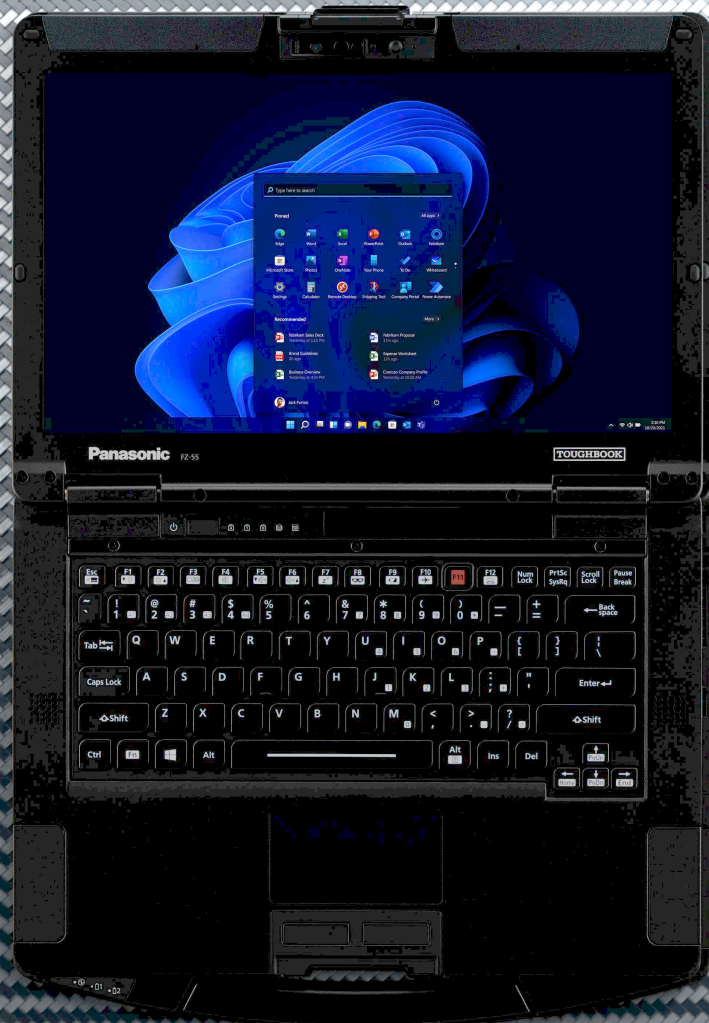
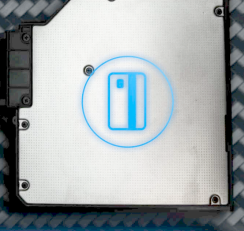
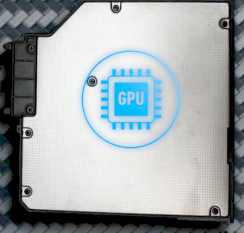
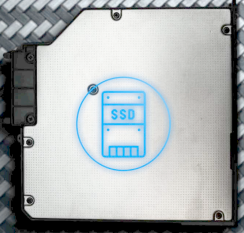
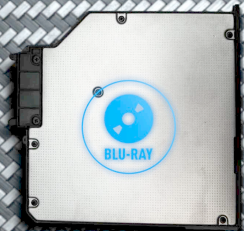
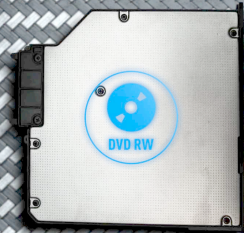


TOUGHBOOK 55 mk2
Solution Guide





TOUGHBOOK 55 Mk2

14" RUGGED WINDOWS PRO NOTEBOOK

** Windows 10 Pro available through downgrade rights from Windows 11 Pro licence*

The TOUGHBOOK 55 mk2 is our most versatile 14" semi-rugged laptop ever built, but doesn't compromise on durability, with a unique 'honeycomb' design for improved strength and resistance against water splashes.

The modular design of the TOUGHBOOK 55 allows users to upgrade the memory, storage, keyboard and three different expansion areas featuring additional I/O, optical drives, authentication readers, dedicated graphics and more. Backwards compatibility with the previous generation of docks protects your investment while saving time and resources.

- Intel® Core™ i5-1145G7 vPro™ Processor
- Windows 10 Pro available through downgrade rights from Windows 11 Pro licence
- 14" HD (WXGA) or Full-HD Active Matrix Display, with optional capacitive Touch Screen ² (max 1,000cd/m² brightness touchscreen model)
- 8GB RAM (expandable up to 64GB max ²) and 256GB SSD
- 2x USB 3.2, 1x Thunderbolt 4, 1x HDMI®, 1x LAN and micro SDXC
- Front and Rear Expansion Slot ², TOUGHBOOK Universal Bay ²
- Long battery life of up to 19 hours (MobileMark 2014)
- Dedicated Global Positioning and optional 4G LTE ²
- Magnesium casing with integrated carry handle
- IP53 Ingress Protection
- Withstands drops from a height of 90cm ¹
- Designed to meet MIL-STD 810H ¹
- -29°C to +60°C operating temperature ¹
- Shock and vibration protected for vehicle docking

¹ Tested by an independent third party lab following MIL-STD810H Method 516.8 Procedure IV for transit drop test and Method 501.7 and 502.7 Procedure II for operation temperature test. May differ depending on models and options.

² Optional

SWITCH.CLICK. FIT. Make It Yours.

Built with state of the art technology, the TOUGHBOOK 55 offers the latest Intel® 11th Gen quad-core vPro™ processor, infrared webcam with 4 microphones ¹, crisp and powerful 92db speakers, optional colour-selectable backlit keyboard and a night mode to reduce eye strain and help preserve night vision.



Mobile Computing Platform	Intel® Core™ i5-1145G7 vPro™ processor (1.6GHz up to 4.1GHz, 6MB Intel® Smart Cache)	
Operating System	Windows 10 available through downgrade rights from Windows 11 Pro licence	
RAM	8GB RAM (max 64GB)	
Graphic Chip	Intel® UHD Graphics 620	
Storage	256GB SSD	
LCD	14" Active Matrix (TFT) LCD 1366x768 (WXGA) or 1920x1080 (Full-HD) ¹ , optional capacitive 10 finger Touch Screen	
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support	
Enhanced Voice Recognition ¹	4 Microphones (included in Front Camera)	
LAN	IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T (2nd GLAN optional)	
Front Camera ¹	2 MP with IR / privacy shutter, Windows Hello compliant (standard configuration on Full-HD models only)	
Bluetooth™	5.1	
Wireless LAN	Intel® WiFi 6 A x 201	
Mobile Broadband ¹	Optional 4G LTE, EM7430	
Global Positioning ¹	u-blox NEO-M8N (supports GPS, GLONASS, Beidou, Galileo)	
Interfaces	USB 3.2	x2
	Thunderbolt 4	x1
	Micro SDXC Memory Card	x1
	HDMI®	x1
	Headset	x1
	DC In	x1
	Port Replicator	x1
	Dual Pass Through Connector ¹	x1
	TOUGHBOOK Universal Bay ²	2nd SSD (256 GB / 512 GB / 1 TB) and OPAL (256 GB / 512 GB / 1 TB) Smart Card Reader DVD Multi Drive Blu Ray Drive
Front Expansion Slot ²	2nd Battery	
	Fingerprint Reader	
	Contactless Smart Card Reader (HF-RFID) Smart Card Reader	
Rear Expansion Slot ²	VGA + True Serial + 4th USB 3.2 (standard configuration on Full-HD models only)	
	VGA + True Serial + 2nd native GLAN	
	VGA + True Serial + Rugged USB 2.0	
Optional Accessories ¹	Backlit Keyboard, 8 GB / 16 GB RAM	
Power	AC Adapter	Input: 100V - 240V AC, 50Hz/ 60Hz, Output: 15.6V DC, 7.05A
	Battery	Lithium-Ion 10.8V, 6500mAh (typ.), 6300mAh (min.)
	Battery Life	Approx 19 hours (Mobile Mark™ 2014) ³ Approx 38 hours with 2nd battery (Mobile Mark™ 2014) ³
	Power Management	Standby function, ACPI BIOS
	Hot Swap ¹	With 2nd Battery ¹
Dimensions (W x H x D)	345mm x 272mm x 32.8mm	
Weight	Approx 2.08 kg to 2.22 kg depending on configuration	
Testing Standards	Drop Resistance	90cm ⁴
	Dust Resistance	IP5x
	Water Resistance	IPx3
	Operating Temperature	-29°C to +60°C ⁴
	Military Spec	MIL-STD-810H ⁴
Included in the box	Power supply, power cord, capacitive pen, display cleaning cloth and user manual	

¹ Optional

² Exclusive option, pre-configured or accessory

³ Battery life measurement conditions: Wireless LAN connection enabled, continuous access to the server while browsing, swipe every 1 second, page change every 20 seconds.

⁴ Tested by an independent third party lab following MIL-STD810H Method 516.8 Procedure IV for transit drop test and Method 501.7 and 502.7 Procedure II for operation temperature test. May differ depending on models and options.

TOUGHBOOK 55mk2: 15.12.2022

Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. Capacity calculated as follows: 1GB = 1,000,000,000 bytes. TOUGHBOOK is a brand name and registered trademark of Panasonic Holdings Company. Intel, the Intel logo, Intel Core, Intel vPro, Core Inside and vPro Inside are trademarks of Intel Corporation in the U.S. and other countries. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances.

Mobile Solutions Business Division - Panasonic Connect Oceania

UNIVERSAL BAY OPTIONS

TOUGHBOOK
Universal Bay

2nd SSD Packs:

Option	SKU
256 GB	FZ-VSD55121U
512 GB	FZ-VSD55151U
1 TB	FZ-VSD551T1U
OPAL 256 GB	FZ-VSD55122U
OPAL 512 GB	FZ-VSD55152U
OPAL 1 TB	FZ-VSD551T2U



Other Options:

DVD Multi Drive

Part No: FZ-VDM551U



Discrete GPU

(AMD Radeon™ Pro WX 4150)

Part No: FZ-VGT551U



Blu-ray Disc Drive

Part No: FZ-VBD551U



Smart Card Reader

Part No: FZ-VSC552U



FRONT EXPANSION SLOT OPTIONS

Front
Expansion Slot

Smart Card Reader

Part No: FZ-VSC551U



Contactless Smart Card Reader (HF-RFID)

(HF-RFID)

Part No: FZ-VNF551U



Finger Print Reader

Part No: FZ-VFP551U



Battery Pack

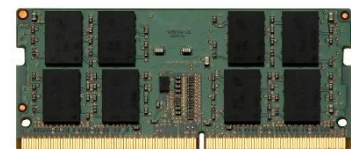
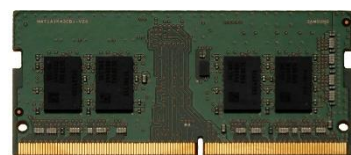
Common for standard battery.

Part No: FZ-VZSU1HU



RAM Modules:

Option	SKU
8GB	FZ-BAZ1908
16GB	FZ-BAZ1916

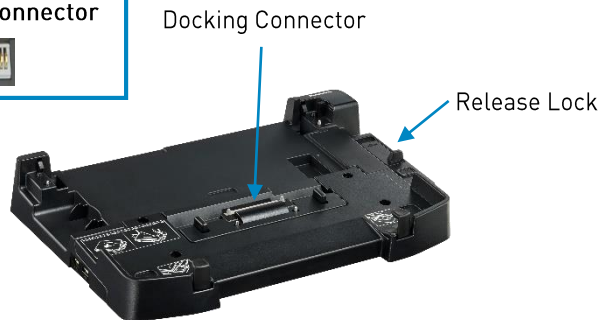
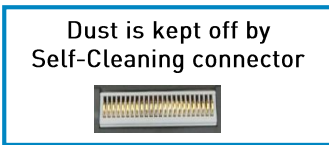


DOCKING SOLUTIONS

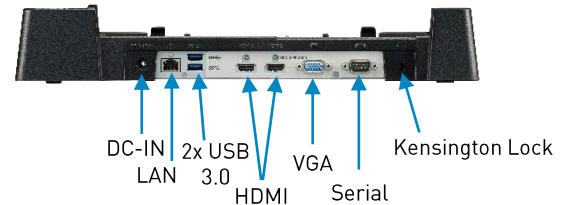
TOUGHBOOK 55 Desktop Port Replicator

Part No: FZ-VEB551U

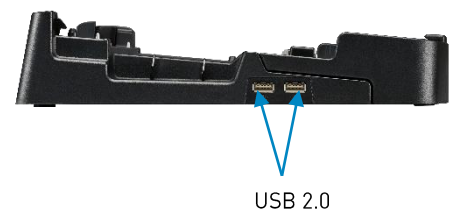
CF-VEB541AU is also compatible with the TOUGHBOOK 55.



Rear



Left



TOUGHBOOK 54/55 Vehicle Dock (Gamber-Johnson)

Compatible with TOUGHBOOK 54 and TOUGHBOOK 55.

- Optional antenna pass-through
- Ports: 16V DC-in; 1 x LAN; 2 x USB 3.0; 1 x Serial; 1 x HDMI; 1 x VGA
- VESA 75mm mounting pattern
- Power supply not included

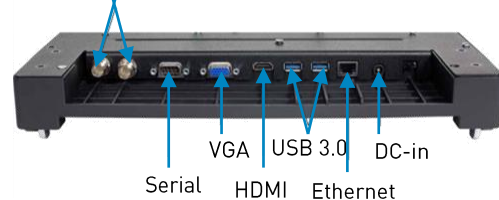
Size: 89 x 342 x 301 mm
Weight: 2.5 kg

Part Nos:

- PCPE-GJ54V01 No RF
- PCPE-GJ54V02 Dual RF
- PCPE-GJ54V03 Non-electronic



Dual Antenna Pass-Through (TNC)



TOUGHBOOK 54/55 Vehicle Dock (Havis)

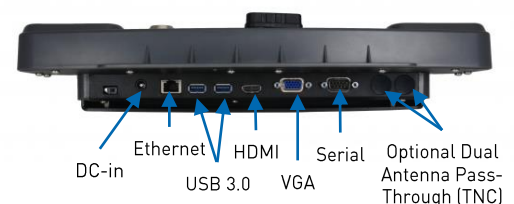
Compatible with TOUGHBOOK 54 and TOUGHBOOK 55.

- Optional antenna pass-through
- Ports: 16V DC-in; 1 x LAN; 1 x VGA; 1 x HDMI; 1 x Serial; 2 x USB 3.0
- VESA 75mm mounting pattern
- Power supply not included
- Keyed alike unless otherwise stated

Size: 384 x 348 x 76 mm
Weight: 2.45 kg

Part Nos:

- PCPE-HAV5401 No RF
- PCPE-HAV5402 Dual RF
- PCPE-HAV5403 Non-electronic



All technical specifications are subject to change without notice.

POWER MANAGEMENT SOLUTIONS

Main Battery

(6Cell, 68 Wh)

Part No: FZ-VZSU1HU



AC Adaptor

Part No: CF-AA5713AA



PRODUCTIVITY SOLUTIONS

TOUGHBOOK 55 Stylus

For Touchscreen model
only.

Part No: FZ-VNP551U



TOUGHBOOK 55 Tether

Part No: FZ-VNT005U



PROTECTION SOLUTIONS

Protective 14" LCD Film

Replacement for protective
film pre-installed on
TOUGHBOOK 55 Touch
Screen Model

Part No: CF-VPF29U



ACCESSORY SUMMARY

Solution Type	Part Number	Description
Universal Bay Options	FZ-VSD55121U	256 GB 2 nd SSD
	FZ-VSD55151U	512 GB 2 nd SSD
	FZ-VSD551T1U	1 TB 2 nd SSD
	FZ-VSD55122U	OPAL 256 GB 2 nd SSD
	FZ-VSD55152U	OPAL 512 GB 2 nd SSD
	FZ-VSD551T2U	OPAL 1TB 2 nd SSD
	FZ-VDM551U	DVD Multi Drive
	FZ-VGT551U	Discrete GPU
	FZ-VBD551U	Blu-ray Disc Drive
	FZ-VSC552U	Smart Card Reader
Front Expansion Slot Options	FZ-VSC551U	Smart Card Reader
	FZ-VNF551U	Contactless Smart Card Reader
	FZ-VFP551U	Finger Print Reader
RAM Modules	FZ-VZSU1HU	Battery Pack
	FZ-BAZ1908	8GB RAM
Docking Solutions	FZ-BAZ1916	16 GB RAM
	FZ-VEB551U	TOUGHBOOK 54/55 Desktop Port Replicator
	PCPE-GJ54V01/2/3	TOUGHBOOK 54/55 Vehicle Dock (Gamber-Johnson)
Power Management	PCPE-HAV5401/2/3	TOUGHBOOK 54/55 Vehicle Dock (Havis)
	FZ-VZSU1HU	Replacement Main Battery (6Cell, 68 Wh)
Productivity	CF-AA5713AA	AC Adaptor
	FZ-VNP551U	TOUGHBOOK 55 Touch Screen Stylus Pen
Protection	FZ-VNT005U	Stylus Tether
	CF-VPF29U	Protective Film for 14" LCD

All technical specifications are subject to change without notice.

Date: 26.02.2020

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Mobile Solutions Business Division Australia, a division of Panasonic System Solutions Oceania. 1 Innovation Road, Macquarie Park NSW 2113 Australia