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**Windows 10 Pro Fully Rugged Detachable with 10.1"
Outdoor Full-HD Display**

TOUGHBOOK 20 Detachable

The TOUGHBOOK 20 delivers a new level of unrivalled versatility for mobile business computing as fully rugged detachable notebook. Offering the best of all worlds for mobile workers, the TOUGHBOOK can be used in 6 different modes to meet every business need. With it's glove enabled touchscreen, up to 17 hour hot swappable battery life and purpose-built Vehicle Mount and Desktop Port Replicator, the Panasonic TOUGHBOOK 20 is an unrivalled mobile business machine.

Key Features

Intel® Core™ i5-7Y57 vPro™ processor

Windows 10 Pro

10.1" Active Matrix (TFT) colour LCD 1920 x 1280 (WUXGA) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 800cd/m²)

IP65 Water and dust resistant**, MIL-STD 810G certified**

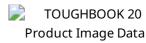Long battery life of up to 17 hours with hot swap and second battery

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TOUGHBOOK 20 WEB Header Banners	TOUGHBOOK 20 WEB Header Banners	TOUGHBOOK 20 WEB Header Banners	TOUGHBOOK 20 Product Image Data

TOUGHBOOK 20 Detachable

https://ap.connect.panasonic.com/th/en/products/toughbook/toughbook-20-detachable

Mobile Computing Platform	Intel® Core™ i5-7Y57 vPro™ processor
Operating System	Windows 10 Pro
RAM	8GB (max. 16GB)
Graphic Chip	Intel® HD Graphics 615
Storage	256GB SSD (512GB optional)
LCD	10.1" Active Matrix (TFT) colour LCD 1920 x 1280 (WUXGA) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 800cd/m²), IP55 Digitiser optional
Bluetooth™	4.2 + EDR Class 1
Wireless LAN	Intel® Dual Band Wireless-AC 8265
Mobile Broadband*	4G LTE, supports 3G
GPS*	U-Blox NEO-M8N
LAN	x1 (Tablet)
	x1 (Keyboard)
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support
Security	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot
Front Camera	2mpixel (with IR for Windows Hello)
Rear Camera	8mpixel with autofocus and LED flash
SD/SDXC Memory Card	x1 Micro (Tablet)
	x1 (Keyboard)
Configuration port (Tablet)**	Serial, 2D Barcode Reader, 2nd USB 2.0
USB 3.0	x3 (x1 Tablet, x2 Keyboard)
USB 2.0	x1 (Keyboard)
HDMI	x1 (Tablet)
	x1 (Keyboard)
VGA	x1 (Keyboard)
Native Serial Port	x1 optional (Tablet)
	x1 (Keyboard)
Headset	x1 (Tablet)
	x1 (Keyboard)
DC In	x2 (Tablet + Keyboard)
Port Replicator	x1 (Keyboard)
Dual Antenna Connector	x1 (Keyboard)
Business Expansion Module (Tablet)**	Smart Card Reader, NFC, Fingerprint Reader
AC Adapter	Input: 100V - 240V AC, 50Hz/60Hz, Output: 16 VDC, 4.06A
Battery	x2 Li-Ion (3 cell, 29Whr)
Battery Life	Tablet + Keyboard: Approx. 17 hours (Mobile Mark™ 2014)
	Tablet: Approx. 8.5 hours (Mobile Mark™ 2014)
Power Management	Hot swap, Standby function, ACPI BIOS
Dimensions (WxHxD)	272 mm × 233 mm × 33.5 mm / 10.71" × 9.17" × 1.32"
Weight	Approx. 1.89kg / 4.17lb
Drop Resistance	MIL-STD 810G, 120cm***
Dust Resistance	IEC529 (JIS C0920) IP6x***
Water Resistance	IEC529 (JIS C0920) IPx5***
Operating Temperature	MIL-STD 810G, -29 ℃ to 60 ℃ ***
Standard Configuration	Touchscreen Model: CF-20mk2, 8GB RAM, 256GB SSD, 2x battery pack, stylus pen
	Dual-Touch Model: CF-20mk2, 8GB RAM, 256GB SSD, 2x battery pack, IP55 digitiser pen
Included in the box	Power Supply, Power Cord, Display cleaning cloth and User Manual
Footnote	*Optional
	**One option exlusive possible in configuration port / business expansion module
	***Tested by an independent third party lab following MIL-STD-810G and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

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