Panasonic recommends Windows 10 Pro



TOUGHBOOK CF-54MK2

SEMI-RUGGED HIGH PERFORMANCE PC

Panasonic has redefined the design of semi-rugged notebooks with the launch of its Toughbook CF-54MK2. Created for a wide range of workers in areas such as the automotive diagnostic industry and field service workers specialising in repairs and maintenance, the new Toughbook CF-54MK2 with Windows 10 Pro is one of the thinnest and lightest semirugged notebooks in its class. However, it doesn't compromise on durability, with a unique 'honeycomb' design for improved strength, MIL-STD 810G and a spill resistant keyboard and touchpad. In terms of flexibility, the Toughbook CF-54MK2 is equally outstanding, offering a huge array of configuration options, making it effortless for customers to choose the exact device spec they need.

- Intel[®] Core[™] i5-6300U vPro[™] Processor
- Windows 10 Professional
- 14-inch IPS Full HD (1920 x 1080) LCD
- Optional 1000 nit sunlight viewable and glove enabled touchscreen
- Ergonomic design including integrated pull out handle for easy carriage
- Withstands drops from a height of 76cm*
- Spill resistant keyboard and touchpad**
- Robust magnesium alloy casing with shock-protected HDD
- Battery life up to 11 hours or up to 18 hours with optional second battery (mobile mark 2007)
- LAN, SDXC card slot, USB 3.0 x3, Serial port and HDMI
- Optional configuration area (DVD or second battery or Smartcard Reader or PC Card)
- Optional configuration port (2nd LAN or dedicated 72 Channel GPS or 4th USB 2.0 or Rugged USB)
- Built-in security chip (TPM v1.2) for data protection
- * Carried out in Panasonic technical research lab. Test conducted in non-operating condition.
 ** Spill resistance applies to all of the keyboard. It does not apply to the side panel, battery section, speakers, and DVD drive when it is open. The spill-resistant performance of the product does not guarantee that it will be free from damage or malfunction. If water is spilled onto it, be sure to have it repaired.



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CORE[™]i5

TOUGHBOOK

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TOUGHBOOK CF-54MK2 SEMI-RUGGED REDEFINED



Breaking the mould for semi-rugged notebooks, the Toughbook CF-54MK2 is only around 30mm thick and weighs just under 2kg. Equipped with Windows 10 Pro and the new 6th generation Intel[®] Core[™] i5 vPro[™] processor which delivers faster computing power, better graphics performance and lower power consumption than its 4th-generation counterpart, the Toughbook CF-54MK2 sets a new benchmark.





*Option combinations are varied. Please consult with your local rep for further info. **Carried out in Panasonic technical research lab. Test conducted in non-operating condition. 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. Specifications are subject to change without notice. Publication date: June 2016.

Optional SmartCard readerPhysical Dimensions272mm (W) x 345mm (H) x 30mm (D)WeightApprox 1.99kgOperating EnvironmentTemperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°CAccessoriesAC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3WRuggednessGravity drop resistance test: 76cm**Spill Resistant Keyboard Shock mounted HDD with floating connectorsMagnesuim Alloy Chassis	Mobile Computing Platform	Intel® Core™ i5-6300U Pro™ Processor 2.4GHz with Intel® Turbo Boost up to 3.0GHz, 3MB Cache		
Graphics Chip Intel® HD Graphics 520 built-in chipset (optional AMD FirePro™ M5100*) Web Camera 2MP with stereo microphone Storage 500 GB SATA HDD, 5400rpm Display 14* IPS Full HD Display 1920 x 1080 TFT Display Up to 220cd/m* brightness (Performance model), 1000 cd/m² brightness (Touchscreen model) Optical Drive* Optional DVD Multi Drive (SATA) Bluetooth® Version 4.1 + EDR Class 1 WLAN IEEE WiFI 802.11 a/brg/n/ac (Intel Dual Band Wireless: AC 8260) 40/LTE Mobile Broadband (optional) Optional Siera Wireless EM7305 with 12 Channel CPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (R)45 1000M/100Mps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.: x3 Docking Connector (dedicated 100-pin) HDMI Configuration area: DVD (CF-WDN541) or second battery (CF-WZSU0KW) or Smartcard Reader (CF-WZS42) or PC card (CF-WPC541) Optional Intersection Optional dual antenna pass through (CF-WEW541) Optional NFC (CF-WIN541R) Optional NFC (CF-WIN541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0KW Operating Time: 2.5 hours Optional SmartCard reader Physical Dimensions 2	Operating System	Windows 10 Pro 64-bit		
Web Camera ZMP with stereo microphone Storage 500 GB SATA HDD, 5400rpm Display 14" IPS Full HD Display 1920 x 1080 TFT Display Up to 220cd/mb brightness (Performance model), 1000 cd/m² brightness (Touchscreen model) Optical Drive* Optional DVD Multi Drive (SATA) Bluetooth® Version 4.1 + EDR Class 1 WLAN IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) G/C/TET Mobile Broadband (optional)* Optional Sterea Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (R)45 1000M/100M/10M/ps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WC541) Optional hot swappable battery Chrawdard auterna pass through (CF-WEW541) Optional NFC (CF-WNF541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0KW Second Battery: Li-Ion 6 cell - CF-VZSU0KW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slo Optional SmartCard reader	RAM	8GB DDR3L SDRAM (max 8GB + 8GB)		
Storage 500 GB SATA HDD, 5400rpm Display 14' IPS Full HD Display 1920 x 1080 TFT Display Up to 220cd/m² brightness (Performance model), 1000 cd/m² brightness (Touchscreen model) Optical Drive* Optional DVD Multi Drive (SATA) Bluetooth* Version 4.1 + EDR Class 1 WLAN IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) Qfu/TF Mobile Broadband (optional)* Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio LAN (R)45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WPC541) Optional hot swappable battery (standard with 4G) Optional fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell	Graphics Chip	Intel® HD Graphics 520 built-in chipset (optional AMD FirePro™ M5100*)		
Display 14* IPS Full HD Display 1920 x 1080 TFT Display Up to 220cd/m² brightness (Performance model), 1000 cd/m² brightness (Touchscreen model) Optical Drive* Optional DVD Multi Drive (SATA) Buetooth® Version 41.4 EDR Class 1 WLAN IEEE WiFI 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) 4/2/1T Kobile Broadband Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100M/ps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WZ5C42) or PC card (CF-WPC541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RC) Optional dual antenna pass through (CF-WEM541) Optional Fingerprint Reader (CF-WZSU0KW) Operating Time: U-Io 16 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Operating Time: 2.5 hours TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock Sl Optional Fingerprint Reader CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second	Web Camera			
Up to 220cd/m² brightness (Performance model), 1000 cd/m² brightness (Touchscreen model) Optical Drive* Optional DVD Multi Drive (SATA) Bluetooth® Version 4.1 + EDR Class 1 VLAN IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100Mps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WCS42) or PC card (CF-WDS41) Optional Nor Augged USB (CF-WUB541) Optional Nor Smartcard Reader (CF-WCS42) or PC card (CF-WUS41GR) Optional dual antenna pass through (CF-WEWS41) Optional NFC (CF-WNF541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant). Integrated Kensington cable security lock sls Optional SmartCard reader Physical Dimensions Z72mm (W) x 345mm (H) x 30mm (D) Ac Adapter: CF-AAS713AM Operatin	Storage	500 GB SATA HDD, 5400rpm		
Optical Drive* Optional DVD Multi Drive (SATA) Bluetooth® Version 4.1 + EDR Class 1 WLAN IEEE WiFi B02.11 <i>a/b/g/n/ac</i> (Intel Dual Band Wireless-AC 8260) Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WKSC542) or PC card (CF-WDE541) Cnefiguration area: DVD (CF-WDM541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional dual antenna pass through (CF-WEW541) Optional hot swappable battery (standard with 4G) Optional Fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sl Optional SmartCard reader Physical Dimensions Z72mm (W) x 345mm (H) x 30mm (D) Versign Time: UP to 1b 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90	Display	14" IPS Full HD Display 1920 x 1080 TFT Display		
Bluetooth® Version 4.1 + EDR Class 1 WLAN IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) 4G/LTE Mobile Broadband (optional) Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Hold USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-W/SC542) or PC card (CF-WPC541) Optional fue antenna pass through (CF-WEW541) Optional fue antenna pass through (CF-WEW541) Optional fue antenna pass through (CF-WEW541) Optional NEC (CF-WNF541) Optional NEC (CF-WNF541) Optional NEC (CF-WNF541) Optional SmartCard Reader (CF-WFP541) Optional SmartCard reader Optional SmartCard reader Sccurity Features Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Inster Platform Module, TCG V1.2 compliant). Integrated Kensington cable security lock slo Sptional SmartCard reader Sp		Up to 220cd/m ² brightness (Performance model), 1000 cd/m ² brightness (Touchscreen model)		
WLAN IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260) 4C/LTE Mobile Broadband (optional)* Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WC542) or PC card (CF-WEV541) Optional out and antenna pass through (CF-WEW541) Optional hot swappable battery (standard with 4G) Optional Vui and antenna pass through (CF-WEW541) Optional NFC (CF-WNF541) Optional NFC (CF-WSF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0KW Optional Second battery CG-FVZSU0KW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slu Optional SmartCard reader Physical Dimensions 2722m (W) x 345mm (H) x 30mm (D) Zerean Waiter (CF-VES10.4, VGA, HDMI, Kensington Lock Battery Charger: CF-VEBTB3W 14* Screen Protective Film: CF-VPF25U Stylus: F2-VNPM11U Temperature: -10°C to 50°C or straage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories	Optical Drive*	Optional DVD Multi Drive (SATA)		
4G/LTE Mobile Broadband (optional)* Optional Sierra Wireless EM7305 with 12 Channel GPS Sound Built-in Stereo Speakers with Intel HD Audio Interface Standard LAN (RJ45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSUOKW) or Smartcard Reader (CF-WISC42) or PC card (CF-WFC541) Optional dual antenna pass through (CF-WUN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional hot swappable battery (standard with 4G) Power Standard Battery: Li-Ion 6 cell - CF-VZSUOFW Second Battery: Li-Ion 6 cell - CF-VZSUOFW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sl Optional SmartCard reader Physical Dimensions 272mm (M) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Cr4 Adapter: CF-AK513AM Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AK513AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 3.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VEBTB	Bluetooth®	Version 4.1 + EDR Class 1		
(optional)* Sound Built-in Stereo Speakers with Intel HD Audio Sound LAN (R]45 1000M/100M/10Mbps) SDXC Memory Card Slot Interface Standard LAN (R]45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDS41) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WDS541) or VUBS41) or Rugged USB (CF-WDS541) Optional reading and the USB 2.0 (CF-WDB541) or 4th USB 2.0 (CF-WUBS41) or Rugged USB (CF-WDS41) Optional dual antenna pass through (CF-WEVS41) Optional hot swappable battery (Standard with 4G) Optional Grand Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant). Integrated Kensington cable security lock sl Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Aprox 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories Ac dapter: CF-AST31AM	WLAN	IEEE WiFi 802.11 a/b/g/n/ac (Intel Dual Band Wireless-AC 8260)		
Interface Standard LAN (R]45 1000M/100M/10Mbps) SDXC Memory Card Slot Headphone Output USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Configuration area: DVD (CF-WDM541) or second battery (CF-VZSUOKW) or Smartcard Reader (CF-WSC542) or PC card (CF-WPC541) Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional dual antenna pass through (CF-WEW541) Optional higreprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Optional Fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSUORW Second Battery: Li-Ion 6 cell - CF-VZSUORW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hours TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sl Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories Accessories Cravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Optional Sierra Wireless EM7305 with 12 Channel GPS		
Headphone Dutput Microphone Input Headphone Dutput Microphone Input USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WPC541) Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional dual antenna pass through (CF-WEW541) Optional hot swappable battery (standard with 4G) Optional NFC (CF-WNF541) Optional Fingerprint Reader (CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sloptional SmartCard reader Physical Dimensions 272mm (M) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AGS713AM Port Replicator: CF-VCBTB3W 14° Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U	Sound	Built-in Stereo Speakers with Intel HD Audio		
USB 3.0: x3 Docking Connector (dedicated 100-pin) HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WLD541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional dual antenna pass through (CF-WEW541) Optional hot swappable battery (Standard with 4G) Optional Fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slk Optional SmartCard reader Physical Dimensions Z72mm (w) x 345mm (H) x 30mm (D) Weight Approx 1.99 kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-VAETS1. Accessories AC Adapter: CF-VCBT93W 14° Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis <td rowspan="4">Interface Standard</td> <td>LAN (RJ45 1000M/100M/10Mbps)</td> <td>SDXC Memory Card Slot</td>	Interface Standard	LAN (RJ45 1000M/100M/10Mbps)	SDXC Memory Card Slot	
HDMI Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WDF541) Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG) Optional hot swappable battery Optional dual antenna pass through (CF-WEV541) Optional hot swappable battery Optional Fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0KW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hours Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sloptional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy C		Headphone Output	Microphone Input	
Interface Options* Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WPC541) Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RC) Optional hot swappable battery (standard with 4G) Optional fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Second Battery: Li-Ion 6 cell - CF-VZSU0FW Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock sld Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-VCBTB3W AC Adapter: CF-VCBTB3W 14" Screen Protective Film: CF-VF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard		USB 3.0: x3	Docking Connector (dedicated 100-pin)	
(CF-WSC542) or PC card (CF-WPC541)Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG)Optional dual antenna pass through (CF-WEW541)Optional hot swappable battery (standard with 4G)Optional Fingerprint Reader (CF-WFP541)Optional NFC (CF-WNF541)PowerStandard Battery: Li-Ion 6 cell - CF-VZSUOPW Second Battery: Li-Ion 6 cell - CF-VZSUOKW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hoursSecurity FeaturesTPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slo Optional SmartCard readerPhysical Dimensions272mm (W) x 345mm (H) x 30mm (D)WeightApprox 1.99kgOperating EnvironmentTemperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°CAccessoriesAC Adapter: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3WAttery Charger: CF-VCBTB3W14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11URuggednessGravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors		HDMI	·	
(CF-WUB541) or Rugged USB (CF-WUB541RG) Optional hot swappable battery Optional dual antenna pass through (CF-WEW541) (standard with 4G) Optional hot swappable battery Optional Fingerprint Reader (CF-WFP541) Optional NFC (CF-WNF541) Power Standard Battery: Li-Ion 6 cell - CF-VZSUOPW Second Battery: Li-Ion 6 cell - CF-VZSUOKW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hours TPM (Trusted Platform Module, TCG V1.2 compliant). Integrated Kensington cable security lock slo Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Time: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VINT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard	Interface Options*			
(standard with 4G)Optional NFC (CF-WNF541)Optional Fingerprint Reader (CF-WFP541)Optional NFC (CF-WNF541)PowerStandard Battery: Li-Ion 6 cell - CF-VZSUOPWSecond Battery: Li-Ion 6 cell - CF-VZSUOKWOperating Time: Up to 11 hours or 18 hours (with optional second battery)Charging Time: Up to 11 hours or 18 hours (with optional second battery)Charging Time: 2.5 hoursSecurity FeaturesPhysical Dimensions272mm (W) x 345mm (H) x 30mm (D)WeightApprox 1.99kgOperating EnvironmentTemperature: -10°C to 50°C or storage to -20°C to 60°C.Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°CAccessoriesAC Adapter: CF-AA5713AMPort Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington LockBattery Charger: CF-VCBTB3W14" Screen Protective Film: CF-VPF25UStylus: FZ-VNPM11UTether: CF-VNT002UStylus: FZ-VNPM11URuggednessGravity drop resistance test: 76cm**Spill Resistant KeyboardShock mounted HDD with floating connectorsMagnesuim Alloy Chassis				
Power Standard Battery: Li-Ion 6 cell - CF-VZSU0PW Second Battery: Li-Ion 6 cell - CF-VZSU0KW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hours Charging Time: 2.5 hours Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slo Optional SmartCard reader Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis			Optional hot swappable battery	
Second Battery: Li-lon 6 cell - CF-VZSU0KW Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hours Security Features Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard		Optional Fingerprint Reader (CF-WFP541)	Optional NFC (CF-WNF541)	
Operating Time: Up to 11 hours or 18 hours (with optional second battery) Charging Time: 2.5 hoursSecurity FeaturesTPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slo Optional SmartCard readerPhysical Dimensions272mm (W) x 345mm (H) x 30mm (D)WeightApprox 1.99kgOperating EnvironmentTemperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°CAccessoriesAC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11URuggednessGravity drop resistance test: 76cm**Spill Resistant Keyboard Shock mounted HDD with floating connectorsMagnesuim Alloy Chassis	Power	Standard Battery: Li-Ion 6 cell - CF-VZSU0PW		
Charging Time: 2.5 hours Security Features Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors		Second Battery: Li-Ion 6 cell - CF-VZSU0KW		
Security Features TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slo Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard		Operating Time: Up to 11 hours or 18 hours (with optional second battery)		
Optional SmartCard reader Physical Dimensions 272mm (W) x 345mm (H) x 30mm (D) Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Charging Time: 2.5 hours		
Weight Approx 1.99kg Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis	Security Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slot, Optional SmartCard reader		
Operating Environment Temperature: -10°C to 50°C or storage to -20°C to 60°C. Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis	Physical Dimensions	272mm (W) x 345mm (H) x 30mm (D)		
Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMJ, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis	Weight	Approx 1.99kg		
Accessories AC Adapter: CF-AA5713AM Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis	Operating Environment	Temperature: -10°C to 50°C or storage to -20°C to 60°C.		
Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Humidity: 30% to 80% RH (no condensation) or storage to 30°C to 90°C		
Battery Charger: CF-VCBTB3W 14" Screen Protective Film: CF-VPF25U Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis	Accessories	AC Adapter: CF-AA5713AM		
Stylus: FZ-VNPM11U Tether: CF-VNT002U Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock		
Ruggedness Gravity drop resistance test: 76cm** Spill Resistant Keyboard Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Battery Charger: CF-VCBTB3W	14" Screen Protective Film: CF-VPF25U	
Shock mounted HDD with floating connectors Magnesuim Alloy Chassis		Stylus: FZ-VNPM11U	Tether: CF-VNT002U	
	Ruggedness	Gravity drop resistance test: 76cm**	Spill Resistant Keyboard	
MIL-STD-810G certified (76cm drop, shock, vibration, rain, dust, sand, altitude, high/low temperat		Shock mounted HDD with floating connectors	Magnesuim Alloy Chassis	
temperature shock, humidity)**		MIL-STD-810G certified (76cm drop, shock, vibration, rain, dust, sand, altitude, high/low temperature, temperature shock, humidity)**		
Dealer Details:	Dealer Details			

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