



## Panasonic Toughbook 20 Rugged Laptop

### PRODUCT SPECIFICATIONS

#### FULLY RUGGED

- Magnesium Alloy Chassis
- MIL-STD-810G and IP65 Tested
- Elastomer Bumpers (Protected Glass/TouchScreen)
- MIL-STD-461F
- Solid state drive heater

#### PROCESSOR

- Intel Core m5-6Y57 vPro 1.1GHz with turbo boost 2.8GHz

#### OPERATING SYSTEMS

- Windows 10 Professional
- Windows 7 Professional, optional downgrade

#### DISPLAY

- 10.1" WUXGA (1920 x 768)
- 10-point capacitive gloved multi touch
- 10-point capacitive gloved multi touch + digitizer
- IPS display with direct bonding
- 2-800 nit
- Anti-reflective and anti-glare screen treatments
- Intel HD Graphics 515
- Dual monitor support
- Concealed mode (configurable)

#### GRAPHICS

- Intel HD Graphics 515

#### MEMORY

- 8GB DDR3L 1600MHz

#### STORAGE OPTIONS

- Standard 128GB SSD with heater
- Optional 256GB/512GB SSD with heaters
- Optional OPAL encrypted SSD with heater

#### BATTERY LIFE

- Li-Ion battery pack: 11.4V, 2600mAh (each battery)
- Standard battery in tablet, optional 2nd battery
- Battery operation: Full shift with optional 2nd battery
- Battery charging time: Appx. 3 hours
- Optional bridge battery: 1 minute hot swap time

#### INTEGRATED COMMUNICATIONS

- Intel Dual Band Wireless AC8260 WiFi 802.11 a/b/g/n/ac
- Optional dedicated GPS
- Intel Pro Wireless Display (WiDi)
- Bluetooth® v4.0
- Dual high-gain antenna pass-through

#### SECURITY

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington® Cable Lock Slots x2
- Trusted platform module (TPM) security chip v.1.2
- Absolute Data and Device Security (DDS)
- Optional Fingerprint reader

- Optional Insertable SmartCard reader
- Optional Contactless SmartCard/NFC reader

#### **COLLABORATION**

- Integrated Speaker and Dual Microphones
- Integrated Rear 8 Megapixel Camera with Flash
- Integrated Front 1080P FHD Webcam
- Integrated Fingerprint Scanner
- NFC (Optional)
- 1D/2D Barcode Scanner (Optional)

#### **PORTS**

- 1 x USB 3.0 Ports
- Micro SDXC
- Micro HDMI- type A
- Micro SIM Card Reader
- Ethernet Serial Port on keyboard dock
- Stereo Headphones/Mic Mini-Jack
- Headphone Compatible
- VGA on keyboard dock
- Optional Serial
- HDMI on keyboard dock
- Docking connector on keyboard dock

#### **DIMENSIONS/WEIGHT**

- 10.7" (L) x 9.2" (W) x 1.3 (H)
- 3.9 pounds

#### **EMISSIONS & IMMUNITY**

- Tested to: MIL-STD-461F
- ANSI/ISA 2.12.01-2013

#### **IEC INGRESS TESTING**

- IEC (60529) Ingress Tested to an IP65 Standard

#### **Certifications**

- Energy Star
- ISO Certification
- RoHS Compliance
- Section 508 Standards

#### **WARRANTY**

- Standard 3 Year Limited Warranty



**Group Mobile**  
5590 W. Chandler Blvd. Suite 3  
Chandler, AZ 85226  
Toll Free: 1-866-RUGGED8  
[www.GroupMobile.com](http://www.GroupMobile.com)