



TOUGHBOOK 55

- **Innovative modular design and user-removable xPAK's offer unparalleled customization**
- **Optional 5G EM9190 xPAK supports 4G, 5G Sub6 and C-band with speeds up to 4.1Gbps**
- **Unprecedented all-day battery life**
- **MIL-STD-810H and IP53 certified magnesium alloy design with built-in handle**
- **Backwards compatibility with the previous generation of vehicle and desktop docks**

AWARD WINNING MODULAR DESIGN AND ALL-DAY BATTERY LIFE

The Panasonic TOUGHBOOK® 55 breaks new ground offering unrivaled flexibility in even the most demanding and unpredictable environments with its innovative modular expansion packs (xPAK's). I/O, optical drives, authentication readers, barcode reader and even the 5G EM9190 xPAK are all user-upgradeable. Backwards compatibility with the previous generation of docks protects customers' investments while saving time and resources. Built with state of the art technology, the TOUGHBOOK 55 offers the latest Intel® 13th Gen CPU with up to 14 processors, up to 64GB of RAM, up to 3TB of storage, choice of embedded 4G or modular 5G, color-selectable backlit keyboard and 92db speakers.



TOUGHBOOK 55

SOFTWARE

- Windows 11 Pro, Red Hat Enterprise Linux 9.4 & 10
- Panasonic Utilities and Recovery Partition
- Waves MaxxAudio®
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS & DURABILITY

- MIL-STD-810H: 3' drop, shock, bench handling, vibration, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity)
- IP53¹
- TAA-compliant¹³
- Spill-resistant keyboard
- Magnesium alloy chassis with handle
- User-removable xPAK's, RAM, keyboard, battery and caged SSD (w/heater)²
- Raised bezel for LCD impact protection
- Replaceable screen protector

CPU

- Intel® Core™ i5-1345U vPro® 10-core processor – Up to 4.7GHz with Turbo Boost, 12MB cache
- Intel® Core™ i7-1370P vPro® 14-core processor – Up to 5.2GHz with Turbo Boost, 24MB cache

STORAGE & MEMORY

- User-upgradeable RAM (up to 2 DIMM's) 16-64GB total (DDR4-3200MHz)^{3,4}
- Main SSD: 512GB, 1TB or 2TB quick-release OPAL NVMe with heater²
- Optional 2nd SSD: 512GB, 1TB or 2TB quick-release OPAL NVMe with heater²⁵

DISPLAY & GRAPHICS

- Display
 - 14.0" HD 1366 x 768
 - 14.0" FHD 1920 x 1080 capacitive touch (1000 nit)
- IPS with direct bonding
- Anti-reflective (AR) and anti-glare (AG) screen treatments on Touch model
- Graphics
 - Intel® UHD Graphics (units with 1 DIMM)
 - Intel® Iris® Xe Graphics (units with 2 DIMM)⁴
- Supports up to 4 displays
- Concealed Mode; Night Mode

AUDIO

- Integrated dual-array mic w/AI noise reduction
- Waves MaxxAudio®
- Integrated 92db speakers (top-facing)
- Keyboard volume and mute controls

WEBCAM

- 2MP (1080p) w/privacy cover
- Infrared with Windows Hello support

KEYBOARD & INPUT

- Touch model: Styluspen, stylus holder and tether
- Touch model: 4 modes (glove, touch, pen, pen/touch)
- Backlit keyboard icons (Caps lock, Num Lock, Scroll Lock, Storage Drive, SD Card)
- User-removable 82-key emissive keyboard²
 - 4 programmable keys (A1-A4)
 - Color-selectable backlit with 4 adjustable levels
- Electrostatic precision touchpad with multi touch

OPTICAL DRIVE

- Optional Blu-ray Drive (xPAK)^{5,6}
- Optional DVD Drive (xPAK)^{5,6}

INTERFACE

- USB-C Thunderbolt™ 4, 40Gbps 3A (PD, DP)
- USB-A x2 (10Gbps 1.5A, 5Gbps 0.9A)
- Optional USB-C (5Gbps); Optional USB-A (5Gbps)⁷
- Optional Fischer® USB (Core Series 5-pin)⁷
- MicroSDXC UHS-I
- HDMI 4K
- Optional VGA⁷
- Ethernet 1Gbps RJ-45
- Optional 2nd Ethernet 1Gbps RJ-45⁷
- Optional Serial (True) D-sub 9-pin⁷
- Audio In/Out 3.5mm
- Dual SIM (Nano-SIM 4FF x1, eSIM x1)

WIRELESS

- Optional embedded 4G EM7595 (up to 0.5Gbps)
 - 4G (LTE, LTE-A)
 - Multi carrier (AT&T, FirstNet, Verizon)
 - Satellite GPS & CBRS Band 48 Capable⁸
- Optional 5G EM9190 xPAK (up to 4.1Gbps)^{5,12}
 - 4G (LTE, LTE-A), 5G (Sub6, C-band)
 - Multi carrier (AT&T, FirstNet, Verizon)
 - Satellite GPS & CBRS Band 48 Capable⁸
- Optional dedicated GPS (u-blox NEO-M9N)
- Optional dual antenna pass-through¹²
- Intel® Wi-Fi 6E AX211 (up to 2.4Gbps)
- Bluetooth® v5.3 (Class 1)
- Airplane mode Fn key

POWER

- Li-Ion battery:
 - 10 hours (20 w/opt. 2nd battery)^{9,10}
 - 10.8V, 6500mAh typical (6300mAh min)
- Hot swap with optional 2nd battery¹⁰
- Battery charging time: 3 hours (each battery)⁹
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V worldwide power, auto sensing/switching

SECURITY FEATURES

- Intel® Hardware Shield
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute in BIOS
- Local Platform Erase
- Kensington cable lock slot
- Encrypted OPAL SSD's
- Optional locking screws for SSD and xPAK's
- Optional fingerprint reader xPAK's¹⁰
 - Secured-core PC (363 DPI)
 - Active Directory (385 DPI)
- Optional insertable Smart Card Reader xPAK's¹⁰
- Optional contactless Smart Card Reader xPAK
 - 13.56MHz (ISO 14443 A/B, 15693, 18092)

DIMENSIONS & WEIGHT

- 4.6 lbs. (HD model), 4.9 lbs. (Touch model)

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- Embedded 4G EM7511 or 5G EM9190 xPAK
- Dedicated GPS (u-blox NEO-M9N)
- Dual antenna pass-through
- Main SSD (OPAL)
 - 512GB FZ-VSDR5535W
 - 1TB FZ-VSDR5537W
 - 2TB FZ-VSDR5539W
- Memory Cards
 - 16GB DDR4 BAZ2232 FZ-
 - 32GB DDR4 VKB55107U
- Backlit Emissive Keyboard
- Rear Expansion Area xPAK's
 - VGA + Serial + USB-A FZ-VCN551W
 - VGA + Serial + LAN FZ-VCN552W
 - VGA + Serial + Fischer USB FZ-VCN553W
 - USB-C + USB-A FZ-VCN554W
- Right Expansion Area
 - Fingerprint (MSFT SC-PC) xPAK FZ-VFP551W
 - Fingerprint (Active Dir) xPAK FZ-VFP552M
 - Contactless Smart Card xPAK FZ-VNF552M
 - Insertable Smart Card xPAK FZ-VSC551W
 - 2nd Battery FZ-VZSU11HU
- Left Expansion Area xPAK's
 - Barcode Reader (N6703HD) FZ-VBD553W
 - Blu-ray Drive – DVD Drive FZ-VDM553W
 - Insertable Smart Card – 5G FZ-VSC552W
 - EM9190 Modem – 512GB FZ-VEW553W
 - 2nd SSD OPAL – 1TB 2nd SSD FZ-VSD55153W
 - OPAL – 2TB 2nd SSD OPAL FZ-VSD551B3W

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 55 and the wide variety of accessories and services offered.

- 1 Basemodel tested by national independent third party lab following MIL-STD-810H Method 516.8
- 2 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP.
- 3 Keyboard is user-replaceable, but once removed, the old keyboard must be discarded.
- 4 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
- 5 Units equipped with two DIMM (memory cards) come with Intel Iris Xe graphics instead of Intel UHD graphics.
- 6 Barcode Reader, Insertable Smart Card CAC Reader, DVD Drive, Blu-ray Drive, 5G EM9190 xPAK and 2nd SSD Drive in Left Expansion Area are mutually exclusive.
- 8 Power2Go and PowerDVD software not included. VGA+Serial+USB-A, VGA+Serial+Fischer USB and VGA+Serial+LAN and USB-C+USB-A in Rear Expansion Area are mutually exclusive. The module firmware and the device antenna system have obtained technical approval by commercial carriers in the US. It is customer's responsibility to assure that the module firmware and the device antenna system are compatible with the customer's Private LTE network using Band 48.
- 9 Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery test results from MobileMark 25 at 250 nit, connected to Wi-Fi and using the Office Productivity and Creativity scenarios. MobileMark 2014 battery life is 18 hours (36 with optional 2nd battery) tested at 150 nit, connected to Wi-Fi and using just the Office Productivity scenario.
- 10 2nd Battery, Fingerprint Reader, Contactless Smart Card Reader and Insertable Smart Card Reader in Right Expansion Area are mutually exclusive.
- 11 Requires software and activation to enable theft protection.
- 12 The 5G EM9190 xPAK is only compatible with Mk3 units, adds a 2.1" bump out to the width, cannot pass through cellular and may require software updates when installed the initial time as a field upgrade. Contact your Panasonic representative for details.
- 13 TAA-compliant products are available upon request.