



# Panasonic

Panasonic recommends Windows 8.



Providing reliable products to get the job done is how we're engineering a better world.

SOLUTIONS FOR BUSINESS

**TOUGHBOOK®**

Panasonic recommends Windows 8.

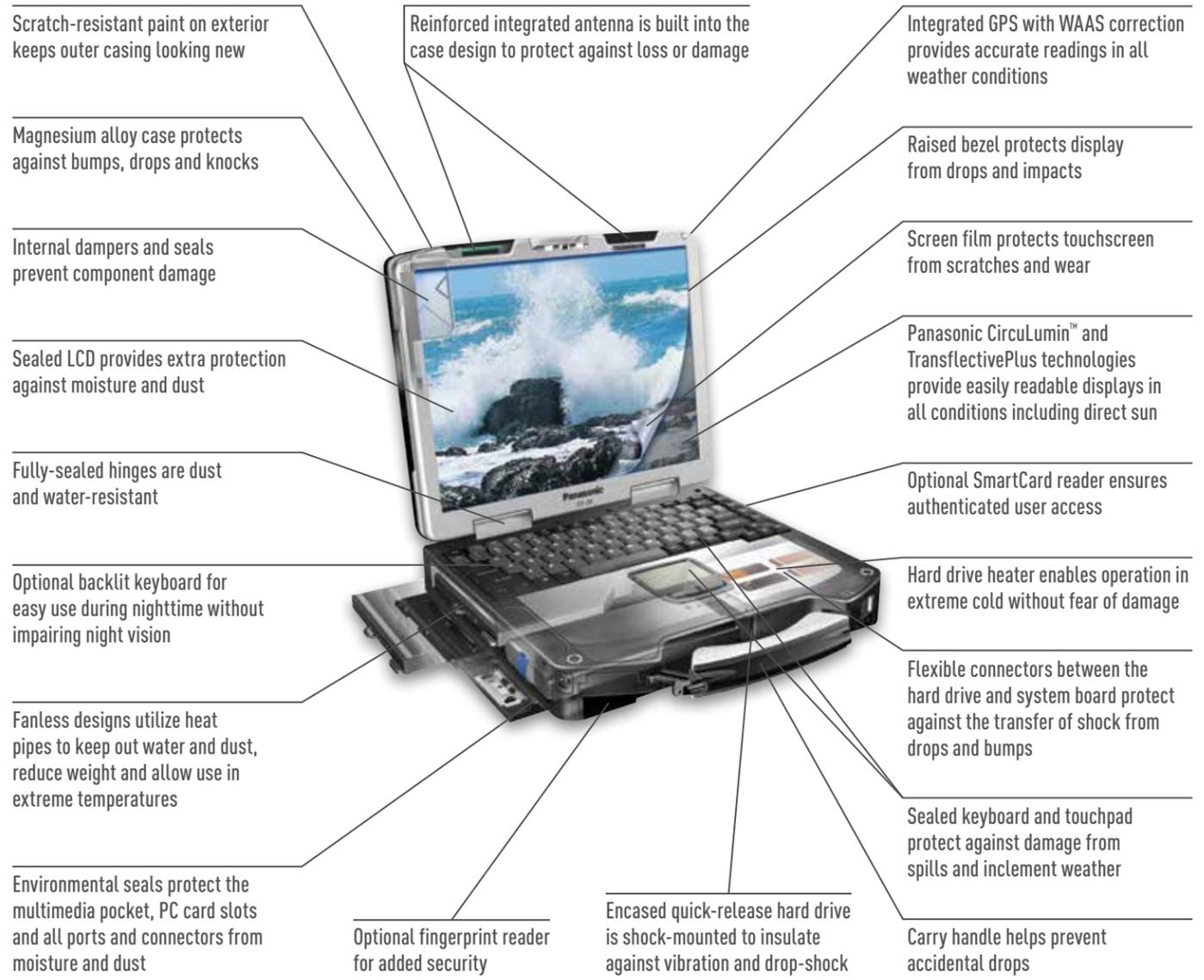
## TABLE OF CONTENTS

- Toughbook Computers for a Tough World ..... 1
- The Panasonic Advantage ..... 2
- Putting the Tough in Toughbook..... 3
- Wireless Built In—Always On and Always Connected ..... 4
- Solutions for Every Industry ..... 5
- Peace of Mind. Dependability..... 6-7
- Full Product Line..... 8-35



## TOUGHBOOK COMPUTERS FOR A TOUGH WORLD

Panasonic Toughbook® computers offer many features designed to keep both your laptop and your work safe.\*



\*Rugged features vary by model. See product specs for details.



Panasonic recommends Windows 8.

## THE PANASONIC ADVANTAGE

**Ruggedness and reliability are the standard for wireless mobile PCs, and Panasonic Toughbook® computers and Toughpad™ tablets are built to survive it.**

### Core Manufacturer

We are the only major manufacturer that designs, builds and tests our computers and tablets and most key components in our own factory. This allows us to control quality, consistency and parts availability every step of the way.

### Lower Total Cost of Ownership

Lower failure rates mean fewer repair expenses and less downtime. Rugged computers and tablets average better than 20% lower total cost of ownership over five years compared to commercial-grade notebooks. That translates to hundreds of dollars per unit.

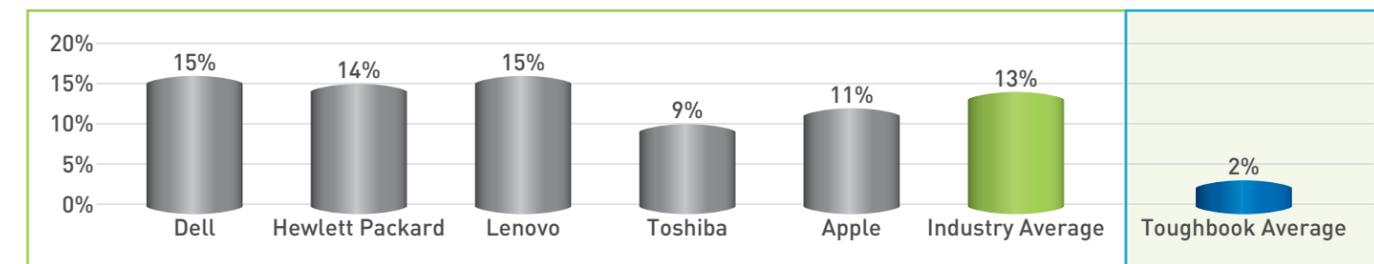
### Minimized Downtime

Panasonic's world-class service and support ensure that Toughbook repair time will be minimal.

- 3-year limited international warranty (compared to the one-year warranty offered by most commercial-grade PC manufacturers)
- 24/7 technical support hotline 1.800.LAPTOP5 (1.800.527.8675)
- Receive user-replaceable parts and repairs for all in-warranty computers and tablets
- Industry benchmark turnaround time on repairs
- In-warranty repair with no charge for shipping from our National Service Center
- Website support including FAQs, downloadable drivers, first aid tools, BIOS, utilities and manuals
- 45-second average hold time
- U.S.-based call centers
- 7-year parts commitment after product end of life

## PUTTING THE TOUGH IN TOUGHBOOK

### INDUSTRY AVERAGE FAILURE RATE



Source: PC Magazine, January 2013

Source: Panasonic Service Records, January 2013

### Reliability

Because we use superior materials and are a core manufacturer, Panasonic computers are over 6x more reliable than the average computer used by businesses across America.\*

\*Comparing Panasonic actual data for Toughbook computers to PC Magazine reader-reported data for competitors.

### Commitment to R&D

Through extensive research and development, Panasonic continues to improve current products and develop the next generation, cutting-edge technology that enables customers to succeed in some of the world's most demanding environments.

- Over 2,500 engineers across six factories, all focused on innovation
- Among the top 20 investors in research and development
- Hundreds of U.S. technology and process patents have been secured

### Greater Customer Satisfaction, More Deployments

With 95 years of serving customers, 20 years of computer expertise and industry-leading customer loyalty, Panasonic achieves more rugged PC deployments at larger organizations than any other brand.

- Panasonic's mean rugged PC install base is nearly double the industry average
- 88% of Panasonic Toughbook customers are highly likely to make a repeat purchase based on satisfaction with repair rates

Source: Technology Business Research, April 2013

Panasonic recommends Windows 8.

## WIRELESS BUILT IN— ALWAYS ON AND ALWAYS CONNECTED

**In today's business environment, staying connected is no longer a luxury. It's the new standard for doing business.**

That's why more and more mobile professionals in every industry are turning to the reliability and world-class wireless performance of Panasonic Toughbook® computers and Toughpad™ tablets. Never fully duplicated or replicated, all Toughbook mobile PCs and Toughpad tablets feature embedded Wi-Fi and optional embedded wireless mobile broadband, delivering the “always on” connectivity demanded by the hectic, mobile lifestyles of today's workforce.

Panasonic has spent more than a decade perfecting the placement of antennas and components to ensure maximum wireless performance and provide a superior solution to competitors' embedded offerings. With this design built into the rugged and reliable Toughbook computers and Toughpad tablets, your bridge to your network couldn't be stronger. Embedded wireless solutions are more dependable and versatile than the wireless card that laptop users typically rely on.

Toughbook computers and Toughpad tablets have been tested to work on leading 4G wireless networks, including AT&T, Sprint and Verizon Wireless networks. Panasonic Toughbook computers and Toughpad tablets with 4G LTE multi carrier modems offer built-in technology to give you the durability, flexibility and performance you need. You can work in challenging environments with the freedom and flexibility you've been waiting for. Whatever your job, however hectic your lifestyle, Panasonic has the right wireless product to meet your mobile computing needs and ensure reliable data transmission in even the most extreme conditions.

## SOLUTIONS FOR EVERY INDUSTRY

**Through its broad range of integrated business technology solutions, Panasonic empowers professionals to do their best work.**

Customers in government, healthcare, production, education and a wide variety of commercial enterprises, large and small, depend on Panasonic to reach their full potential, achieve a competitive advantage and improve outcomes.

- Panasonic offers a complete suite of products and solutions to address all customers' business needs:
  - Computers and tablets
  - Document management and imaging
  - Medical imaging
  - POS and wireless headsets
  - Professional displays
  - Professional video production
  - Projectors
  - Unified communications
  - Video surveillance
- All Toughbook and Toughpad mobile computers are available as TAA-compliant models and approved for government deployment
- Panasonic and its partners design a wide assortment of heavy-duty docks, mounts and other peripherals—including readers, printers and mag stripe readers—to expand and enhance Toughbook and Toughpad capabilities
- Panasonic values keeping backward compatibility with vehicle docks from previous models to allow customers to save the expense and hassle of replacing vehicle docks every time a new model is introduced. For instance, the Toughbook 19 and Toughbook 31 can use the same vehicle dock from 12 and 14 years ago, respectively

THE TOUGHBOOK AND TOUGHPAD ANSWER TO WIRELESS	
Toughbook Embedded Wireless Solution	PC Card Solution
Three-year warranty	One-year warranty
Integrated antenna located on top of the LCD provides better sensitivity and therefore better signal strength	External antenna located in PC card slot is smaller in size and therefore decreases signal strength
Antenna covered under three-year warranty	No warranty for antenna breakage or loss
The modem integrates with the computer and operating system to take advantage of power-saving options	Reduction in battery life as PC card slots are always on when a card is plugged into them
Built-in modem is always in the computer and never needs to be inserted or removed. Wireless-ready means you can choose to install the modem anytime after purchase	PC cards must constantly be inserted and removed from the laptop, which creates wear and tear on the connector. This can also lend itself to loss or damage to the laptop, or difficulty using when laptop must remain in a docking station in a vehicle

Panasonic recommends Windows 8.

## PEACE OF MIND. DEPENDABILITY

Count on the team behind the machine to provide the deployment, support and management services your organization requires for your Panasonic Toughbook® computers and Toughpad™ tablets.

### TOUGHPAD SERVICE PACKAGES

#### Managed IT Services

- Tier-1 Help Desk Services
- Tier-2 Services
- Network Monitoring and Management Services

#### Frontline Consulting

- Deployment Services
- Project Management Services

#### Warranty Services

- Extended Warranty
- Extended Battery Warranty
- Protection Plus
- Hot Swap Program



### TOUGHBOOK SERVICE PACKAGES

#### Toughbook Premier

- Life of Product Services
- In-Warranty Services
- Deployment and Asset Tagging
- Disk Image Management
- Online Service Analysis
- Asset Management

#### Toughbook Preferred

- Life of Product Services
- In-Warranty Services
- Online Service Analysis

#### Toughbook Plus

- Life of Product Services
- In-Warranty Services

### CUSTOMER PRODUCTIVITY SERVICES

#### Field Consulting Service

This service is provided by our Technical Field Managers (TFMs) when additional technical training, application support, after-deployment troubleshooting, and problem resolution are needed to support your organization's mobile computers.

#### Hot Swap Management

With Hot Swap Management, our National Service Center minimizes user downtime by shipping customer-owned Toughbook devices, configured with your organization's image, directly to your organization's users for next-business-day delivery to replace the Toughbook that needs to be sent in for repair.

#### Customer Branding Badge

This service allows your organization's logo, instead of the Toughbook logo, to appear on your Toughbook mobile computers when your deployment is done by our National Service Center.

#### Data Protection

This solution, provided by Computrace® by Absolute Software, works behind the scenes and securely contacts your organization's Toughbook computers to allow your administrators to monitor usage.

#### On-Site Service

On-Site Service performs Toughbook computer repairs for your organization right at your users' work locations to reduce the burden on your internal IT resources, reduce downtime and provide data security.

### UPGRADE WARRANTY SERVICES

#### Extended Warranty

The Extended Warranty allows your organization to extend the 3-year standard warranty coverage that comes with every Panasonic Toughbook computer to either 4 or 5 years, depending on budget needs.

#### Protection Plus

This warranty adds an additional layer of protection that enhances the standard warranty coverage during both the original period and an extended coverage period by protecting against accidental physical damage that occurs during regular use of a Toughbook computer.

#### Extended Battery Warranty

The Extended Battery Warranty extends the 1-year standard warranty for batteries up to 5 years so your organization can have the same coverage period on your batteries as it does on your Toughbook computers.

#### Hard Drive Warranty

The Hard Drive Warranty allows your organization to keep the hard drive when we send out a replacement hard drive to your user, or when your computer needs to be sent to our National Service Center.

Panasonic recommends Windows 8.

## THE SEMI-RUGGED PANASONIC TOUGHBOOK C2



### TOUGHBOOK C2

- 12.5" convertible tablet with multi touch or multi touch + digitizer display
- Full shift battery life
- Rugged triple hinge design
- Ergonomic strap
- Available NFC, bottom camera, serial port, barcode and SmartCard readers
- Drop and spill-resistant



Introducing the 12.5" convertible tablet PC, the Panasonic Toughbook® C2, with the longest standard battery life in its class. It features an array of industry-leading performance advancements, such as being the only convertible tablet in its class to offer a durable triple hinge design, as well as a unique bridge battery for continuous use by enabling hot-swappable replacement without disruption.

- Intel® Core™ i5 vPro™ processor
- Windows® 8.1 Pro, Windows® 7 Professional
- 3.99 lbs.
- 14-hour battery life; 19 hours with long life battery
- Dual array mic and webcam
- Wi-Fi, Bluetooth® and optional 4G LTE multi carrier mobile broadband with satellite GPS



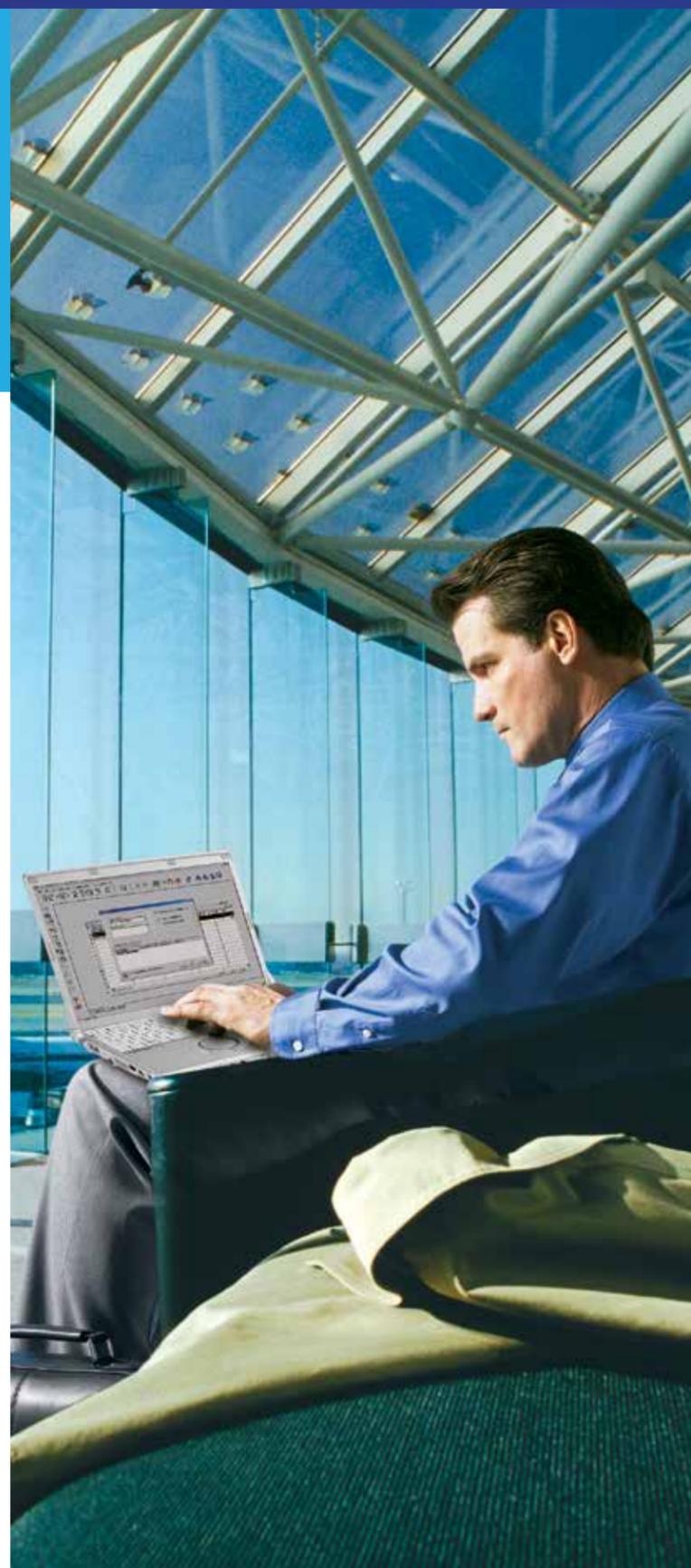
Panasonic recommends Windows 8.

## THE BUSINESS-RUGGED PANASONIC TOUGHBOOK SX2



### TOUGHBOOK SX2

- Longest standard battery life in its class
- 12.1" widescreen display
- HDMI and VGA video outputs
- Two USB 3.0 ports for faster file transfer speeds
- Drop-resistant



Introducing the longest standard battery life in its class, the 3.1 lb. Panasonic Toughbook® SX2. With an amazing 14.5 hours of battery life, Wi-Fi, Bluetooth® and easy-to-use circular scrolling touchpad, the Toughbook SX2 was designed for the mobile professional.

- Intel® Core™ i5 vPro™ processor
- Windows® 7 Professional
- 3.1 lbs. with 14.5 hours of battery life
- DVD drive
- Hi-def webcam with built-in mic



Panasonic recommends Windows 8.

## THE SEMI-RUGGED PANASONIC TOUGHBOOK 52



### TOUGHBOOK 52

- Desktop class performance
- 15.4" widescreen WUXGA display
- Quick-release shock-mounted hard drive
- Drop and spill-resistant
- Magnesium alloy case with handle



The Panasonic Toughbook® 52 is a reliable wireless desktop replacement that features a generous 15.4" widescreen for enhanced productivity.

- Intel® Core™ i5 vPro™ processor
- Windows® 7 Professional
- 7.5 lbs.
- DVD drive
- Wi-Fi and Bluetooth®



**TOUGHBOOK®**

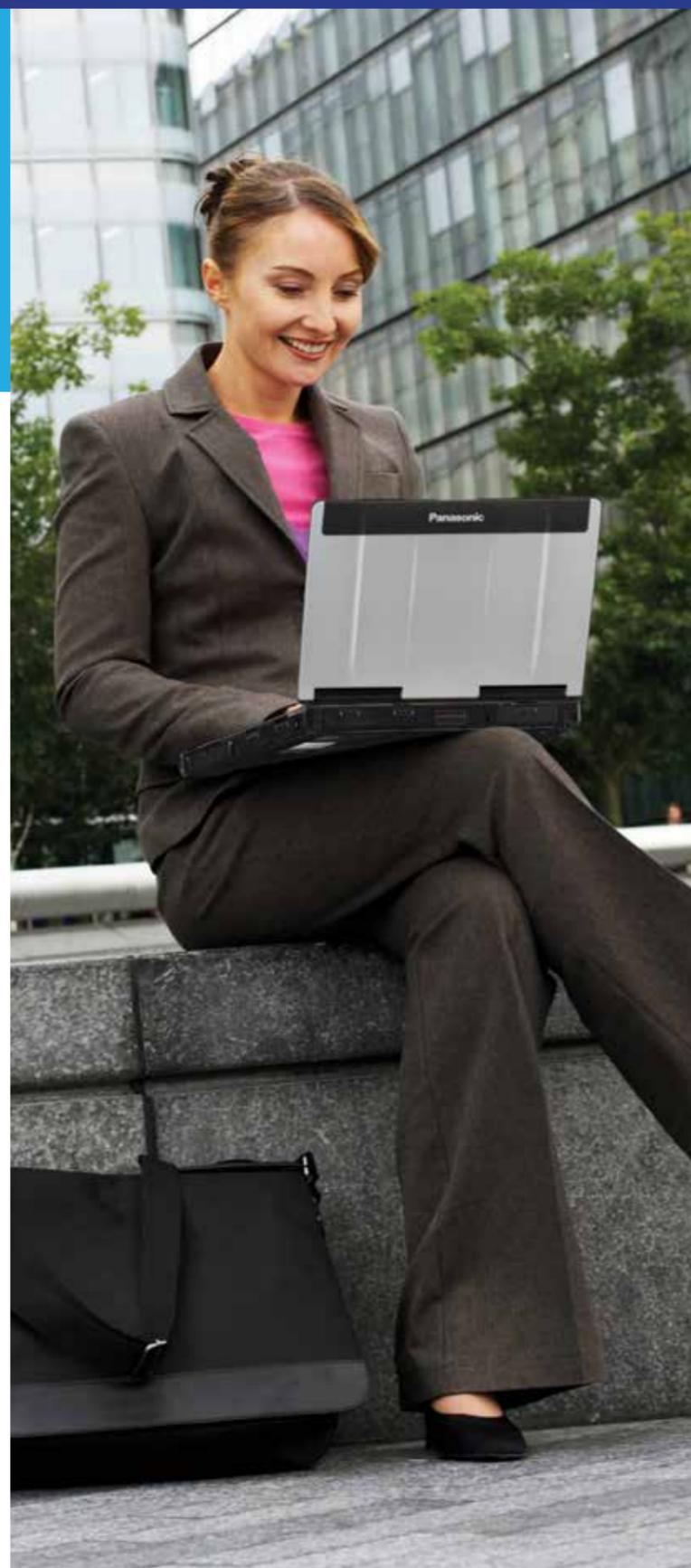
Panasonic recommends Windows 8.

## THE SEMI-RUGGED PANASONIC TOUGHBOOK 53



### TOUGHBOOK 53

- 14" high definition widescreen
- Optional sunlight-viewable touchscreen
- Oversize touchpad with multi touch
- Shock-mounted flex-connect hard drive with quick-release
- Magnesium alloy case with handle



With a 14" HD LED display, an Intel® Core™ i5 vPro™ processor and an oversize multi touch touchpad, the Panasonic Toughbook® 53 performs like a desktop. Options for a sunlight-viewable Panasonic CircuLumin™ touchscreen, backlit keyboard, GPS (SiRFstarIII™), 4G LTE multi carrier mobile broadband with satellite GPS, an integrated webcam and choice of insertable or contactless SmartCard reader make this the most versatile semi-rugged PC ever.

- Intel® Core™ i5 vPro™ processor
- Windows® 8 Pro, Windows® 7 Professional
- Starting at 5.6 lbs.
- Up to 11-hour battery life
- DVD drive
- Wi-Fi, Bluetooth® and optional 4G LTE multi carrier mobile broadband with satellite GPS

3-FOOT  
DROP RATING

MIL-STD-810G



**TOUGHBOOK®**

Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHBOOK 19



### TOUGHBOOK 19

- 10.1" convertible tablet with touch or multi touch + digitizer display
- Sunlight-viewable up to 6000 nit in direct sunlight
- Optional 3MP camera
- Shock-mounted flex-connect hard drive with quick-release
- Full magnesium alloy case with hand strap



The convertible Panasonic Toughbook® 19 is tough times two. It easily converts from a powerful notebook PC to a convenient tablet PC with one quick swivel. It's wireless and fully-rugged either way. Plus, it's powered with an Intel® Core™ i5 vPro™ processor for breakthrough performance and maximum unwired freedom.

- Intel® Core™ i5 vPro™ processor
- Windows® 8 Pro, Windows® 7 Professional
- 5.1 lbs.
- Up to 10-hour battery life
- Wi-Fi, Bluetooth® and optional 4G LTE multi carrier mobile broadband with satellite GPS

IP65

6-FOOT  
DROP RATING

MIL-STD-810G



**TOUGHBOOK®**

Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHBOOK 31



### TOUGHBOOK 31

- Desktop-class performance
- 13.1" sunlight-viewable 1200 nit touchscreen
- Optional webcam and backlit keyboard
- Shock-mounted flex-connect hard drive with quick-release
- Full magnesium alloy case with handle



Introducing the Panasonic Toughbook® 31, the reliable laptop offering the highest performance in its class along with the world's most rugged design. Available with discrete graphics, it delivers improved video/3D graphics. With 14 years of docking compatibility, you have a computer that always goes the distance with you anytime, anywhere.

- Intel® Core™ i5 vPro™ or i3 processors
- Windows® 8 Pro, Windows® 7 Professional
- 7.9-8.2 lbs.
- Up to 14.5-hour battery life; 21 hours with optional media bay 2nd battery
- Optional DVD drive
- Wi-Fi, Bluetooth® and optional 4G LTE multi carrier mobile broadband with satellite GPS

**IP65**

**6-FOOT  
DROP RATING**

**MIL-STD-  
810G**



**TOUGHBOOK®**

Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHBOOK H2



### TOUGHBOOK H2

- 10.1" dual touch display
- Sunlight-viewable up to 6000 nit in direct sunlight
- USB, serial and Ethernet ports
- Long-life hot-swappable twin batteries
- Available built-in camera, RFID and SmartCard and barcode readers
- Ergonomic rubber hand strap and integrated handle



The rugged Panasonic Toughbook® H2 handheld tablet PC is the ultimate productivity tool for mobile workers. With superior ergonomics, a brilliant 10.1" sunlight-viewable screen capable of up to 6000 nit and sealed all-weather design, the Toughbook H2 lets you work virtually anywhere.

- Intel® Core™ i5 vPro™ processor
- Windows® 7 Professional<sup>1</sup>
- 3.5 lbs.
- 7-hour battery life (with both batteries)
- Wi-Fi, Bluetooth® and choice of 3G Gobi™ or 4G LTE mobile broadband



**TOUGHBOOK®**



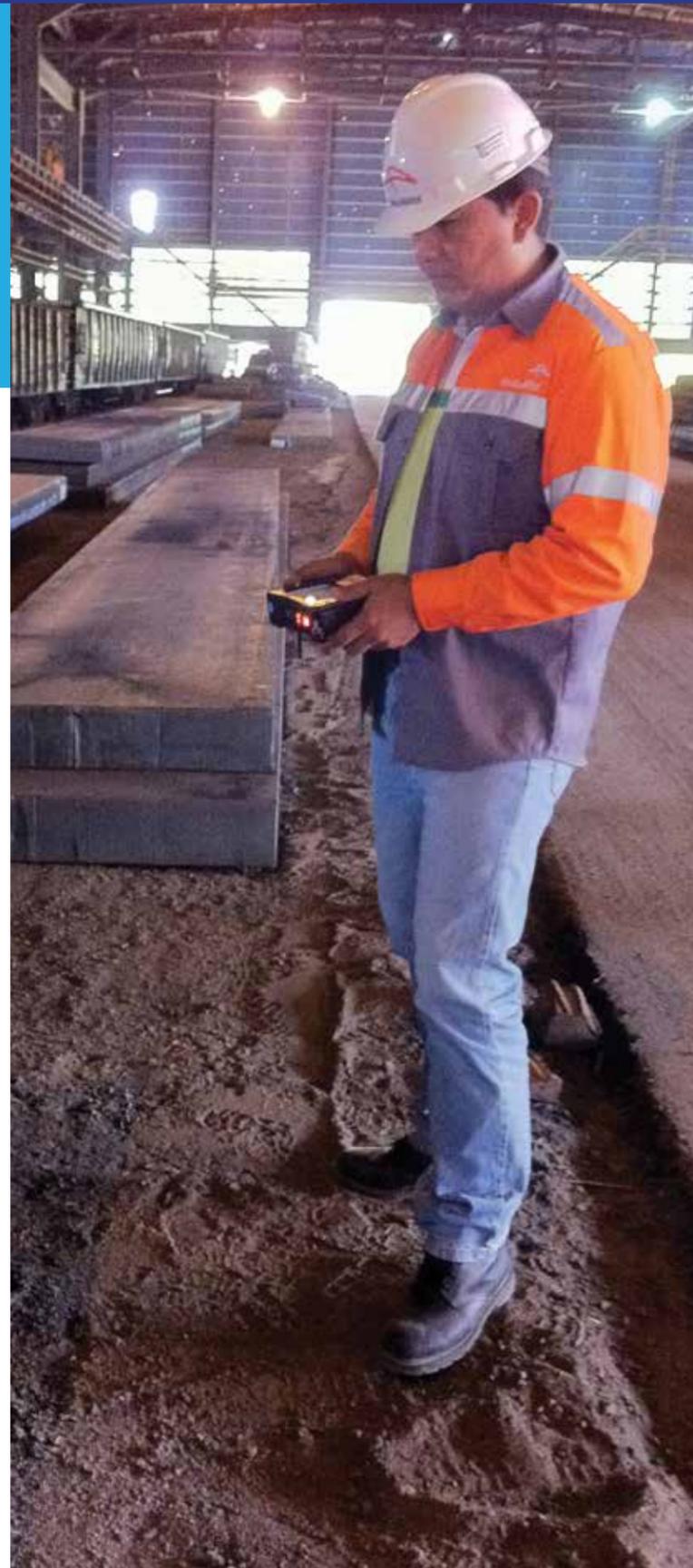
Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHBOOK U1 ULTRA



### TOUGHBOOK U1 ULTRA

- 5.6" touchscreen display
- Sunlight-viewable up to 6000 nit in direct sunlight
- Twin hot-swappable batteries for continuous use
- Optional integrated camera, GPS and barcode and fingerprint readers
- Numeric and QWERTY keyboard options



The Panasonic Toughbook® U1 Ultra features a brilliant screen capable of up to 6000 nit in direct sunlight, and can automatically adjust its screen brightness to fit its environment. Windows® 7 Professional¹ support means an easier-to-use interface and more off-the-shelf commercial applications than any OS on the planet.

- Intel® processor
- Windows® 7 Professional¹
- 2.3 lbs.
- 9-hour battery life
- Wi-Fi and Bluetooth®

IP65

6-FOOT  
DROP RATING

MIL-STD-810G



\*Shown with optional numeric keyboard.



**TOUGHBOOK®**

THE FULLY-RUGGED  
PANASONIC  
TOUGHPAD FZ-A1



**TOUGHPAD FZ-A1**

- 10.1" daylight-readable multi touch + digitizer
- Supports electronic stylus, touch and gestures
- Embedded hardware and software security
- All-weather magnesium alloy chassis



The Android™-powered Panasonic Toughpad™ FZ-A1 is the fearless business tablet that goes where no tablet has ever gone before. Combining data and device security, seamless connectivity, enterprise-minded technology and a long legacy of rugged and reliable computing, the Toughpad FZ-A1 is the perfect melding of mind and muscle.

- Marvell® dual-core processor
- Android™ OS
- 2.1 lbs.
- 10-hour battery life
- Wi-Fi hotspot router supports up to 5 devices
- GPS (SiRFstarIII™), Wi-Fi, Bluetooth® and optional 4G LTE mobile broadband with satellite GPS



**TOUGHPAD**

THE FULLY-RUGGED  
PANASONIC  
TOUGHPAD JT-B1



TOUGHPAD JT-B1

- 7" daylight-readable 4-point multi touch screen
- Micro-USB port and microSD card slot for maximum connectivity
- High capacity user-replaceable battery
- Adjustable hand strap



The Panasonic Toughpad™ JT-B1 is the lightest fully-rugged mobile computer Panasonic has ever built. It's an Android™ tablet designed for professionals and is ideal for one-handed use and fits in a coat or cargo pocket. The MIL-STD-810G and IP65 certified<sup>2</sup> Toughpad JT-B1 combines data and device security, seamless connectivity and enterprise-minded technology.

- Android™ 4.0
- 1.2 lbs.
- 8-hour battery life
- Wi-Fi hotspot router supports up to 5 devices
- GPS (SiRFstarIII™), Wi-Fi, NFC, Bluetooth® and optional 4G LTE with satellite GPS



**TOUGHPAD**



Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHPAD FZ-G1



### TOUGHPAD FZ-G1

- 10.1" daylight-readable 10-point multi touch + digitizer
- USB 3.0 + HDMI ports, optional GPS (SiRFstarIII™), barcode reader, serial dongle, Ethernet, microSD or 2nd USB port
- Solid state drive heater
- Optional rotating hand strap



The Panasonic Toughpad™ FZ-G1 is the world's thinnest and lightest fully-rugged 10.1" Windows® 8 tablet. Designed for highly mobile field workers, it's powered by a 3rd generation Intel® Core™ i5 vPro™ processor with an MIL-STD-810G and IP65 certified<sup>2</sup> design. Add to that an HD daylight-readable 10-point multi touch + digitizer screen, and it becomes an essential tool for field workers.

- Intel® Core™ i5 vPro™ processor
- Windows® 8 Pro<sup>1</sup>
- 2.5-3.0 lbs.
- 8-hour battery life (standard battery); 18.5-hour battery life (optional long life battery)
- 3MP rear camera with auto focus and LED light
- Wi-Fi, Bluetooth® and optional 4G LTE multi carrier mobile broadband with satellite GPS



**TOUGHPAD**



Panasonic recommends Windows 8.

## THE FULLY-RUGGED PANASONIC TOUGHPAD FZ-M1



### TOUGHPAD FZ-M1

- 7" daylight-readable 10-point multi touch screen
- User-replaceable battery, optional bridge battery and long life battery
- USB 3.0, optional NFC, Ethernet, serial, SmartCard, magnetic stripe and barcode reader
- Solid state drive heater
- Optional hand strap or rotating hand strap



The Panasonic Toughpad™ FZ-M1 is the world's thinnest and lightest fully-rugged 7" Windows® tablet with an Intel® Core™ i5 vPro™ processor built to enable mission-critical mobile worker productivity without compromise. It features a long life, user-replaceable battery and a daylight-readable, high-sensitivity multi touchscreen for use with heavy gloves. With the broadest range of configuration options available in its class, the highly customizable Toughpad FZ-M1 is the ideal tool for today's mobile workforce.

- 4th generation Intel® Core™ i5 vPro™ processor
- Windows® 8.1 Pro<sup>1</sup>
- 1.2 lbs.
- 8-hour battery life (standard battery); 16-hour battery life (optional long life battery)
- 8MP rear camera with auto focus and LED light
- Wi-Fi, Bluetooth® and optional dedicated GPS or 4G LTE multi carrier mobile broadband

**IP65**

**5-FOOT  
DROP RATING**

**MIL-STD-  
810G**



**TOUGHPAD**

Panasonic recommends Windows 8.

## THE BUSINESS-RUGGED PANASONIC TOUGHPAD 4K



### TOUGHPAD 4K

- 20" 10-point capacitive multi touch IPS alpha display; supports bare hand touch and gestures and optional optical electronic touch pen
- 230ppi resolution
- 2.5' drop rating (back side when operating); 1' drop rating (26 angles when not operating)\*
- Mini display port (Performance model)

\*Drop rating will vary and is not guaranteed.



The business-rugged Panasonic Toughpad™ 4K is the highest resolution\* display ever sold commercially with nearly 10 million pixels—all in a portable, lightweight 20" tablet. It delivers 230 pixels per inch and 16.7 million colors for resolution that is as high as the human eye can discern from one and a half feet away. The beyond ultra high definition Toughpad 4K tablet is a business-rugged, portable tablet that breaks new ground in digital viewing with better than 4K resolution, collaborative working with touchscreen capabilities, and a unique Panasonic electronic touch pen for pinpoint accuracy and annotation.

\*As of press time.

- Intel® Core™ i5 vPro™ (Standard model) or i7 vPro™ (Performance model) processor
- Windows® 8.1 Pro
- Weighs as little as 5.3 lbs. and is 0.5" thin
- Forward and rear-facing (Performance model) cameras
- Dedicated NVIDIA® graphics
- Wi-Fi and Bluetooth®



**TOUGHPAD**

Panasonic recommends Windows 8.

## THE PANASONIC TOUGHBOOK PDRC



### TOUGHBOOK PDRC

- Full magnesium alloy case
- 12.1" incredibly bright, fully adjustable 1600 nit sunlight-viewable ToughScreen™ LCD
- Spill-resistant backlit keyboard with touchpad
- Usable with in-cab or trunk-mounted Toughbook® PCs
- Compatible with the Toughbook 19, Toughbook 31, Toughbook H2 and Toughpad FZ-G1



A Permanent Display Removable Computer for mobile workers, the PDRC combines the reliability of a vehicle-mounted display and full-size keyboard system with the flexibility of a notebook PC that you can carry anywhere. The backlit keyboard and ToughScreen display ensure optimum readability, day or night.

- Red backlit programmable emergency key on display and keyboard
- Remote Power ON/OFF key turns the power on and returns screen to exactly where you left off, or immediately blanks screen
- Low power consumption, even with vehicle off or idling
- Dual integrated speakers with adjustable volume

