

Panasonic



TOUGHPAD

TOUGHPAD FZ-A1 ANDROID™-POWERED TABLET BUILT FOR WORK

- Android™ 4.0 (Ice Cream Sandwich)
- Marvell™ 1.2GHz dual-core processor
- User-friendly intuitive experience
- Instant-on access to quick and light content
- Marvell-embedded security chip, FIPS 140-2 level 2 compliant
- 10.1" anti-reflective capacitive multi-touch display with digitizer pen
- Satellite GPS and integrated digital compass
- Up to 10 hours' battery life
- Replaceable battery for mid-life battery upgrades
- Rugged Toughbook protection:
 - Drop resistant from a height of 120cm*; MIL-STD-810G compliant
 - Water/dust protected according to IP65*
- Enterprise security, manageability and eco-system

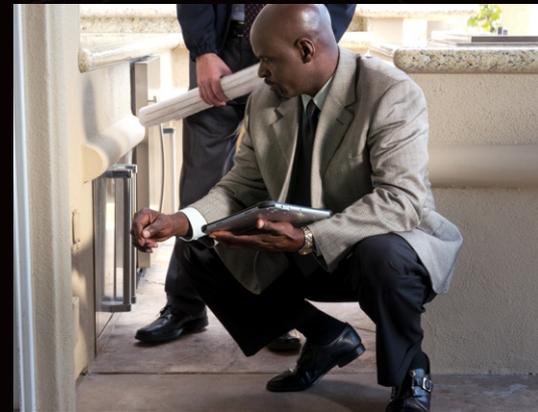
*Tested in Panasonic Factory

TOUGHBOOK

When it's worth doing better.

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**RUGGED RELIABILITY.
SECURE CONNECTIVITY.
ENTERPRISE FEATURES.
DAYLIGHT VIEWABILITY.**



INTRODUCING THE TOUGHPAD FZ-A1.

The Android™-powered tablet built for mission-critical applications.

What is it?

An all-new professional-grade Android-powered tablet with a 10.1" display, the Panasonic Toughpad FZ-A1 helps to drive efficiency and productivity in ways that were never previously possible.

Value proposition

With day-shift-long battery life and high-class wireless capabilities, the Toughpad FZ-A1 is ideal for highly mobile outdoor workers.

It's especially suitable for light field applications in markets such as aviation, construction, field sales and the public sector, where exposure to extreme environments is a constant challenge and the consequences of failure are significant.

The Toughpad FZ-A1 is ready to connect any time, anywhere, with instant broadband access. The device can also be used as a tool to optimise business processes as a

Thanks to a daylight-viewable business matt screen, Toughbook™ premium product quality, enterprise-class security and advanced device management, the Toughpad FZ-A1 is the most rugged, reliable and enterprise-ready Android-powered tablet in the market.

cost effective pen/paper replacement, due to the daylight-visible screen and digitizer pen. This input function allows users to perform biometric electronic signatures, handwriting recognition and complete electronic forms – perfect for sales, customer service and mobile point-of-service environments.

The device also incorporates security embedded at the hardware level. It supports technologies such as hardware and software encryption, enhanced VPN, dual-factor authentication, and trusted boot and device management. So it's the ideal companion in MOD, government and healthcare environments.

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What sets the Toughpad FZ-A1 apart from consumer tablets?

Created specifically for highly mobile outdoor users across a range of industries and disciplines, the Toughpad FZ-A1 has been designed from the outset to be an 'enterprise-grade' device. As such, it's very different from the consumer tablets we're all familiar with.

	CONSUMER TABLET	TOUGHPAD
DISPLAY	Capacitive glare multi-touch	Anti-glare/anti-reflective multi-touch
DISPLAY INPUT	Finger	Finger + digitizer pen
DISPLAY BRIGHTNESS	200-300 candela	500 candela
BATTERY LIFE	7-10 hours	10 hours
BATTERY FORMAT	In-built	Replaceable
TEMPERATURE	5-35oC	-10-50oC
DROP RESISTANCE	No details	120cm
WATER/DUST RESISTANCE	No details IP65	compliant
SECURITY	3rd-party apps,	Android STD security Hardware-embedded chip, storage encryption, trusted boot function
CORPORATE MANAGEABILITY	Android VPN client, out-of-the-box image, user firmware updates	Corporate VPN clients, security and manageability suites, custom builds, remote firmware updates and patch management on project base
PRODUCT WARRANTY	1 year	3 years
KENSINGTON LOCK	No	Yes
INDUSTRY COMPLIANCE	Limited Security	FIPS 140-2 level 2 compliant, safety HIPAA compliant, rugged MIL-STD/IP rating compliant

Reliability and durability

Designed to meet the same standards as all Toughbooks, the Toughpad is way more durable than other tablets. The device is MIL-STD-810G compliant for drops, as well as IP65 rated for resistance to dust, water and extreme temperatures.

The internal magnesium frame of the device provides a strong skeleton fit to protect internal parts and PCB from drop-shock impacts. The elastomer guard around the corners of the devices reduces drop force and protects the display. The display glass is chemically hardened and directly bonded to the display which strengthens the vibration and impact resistance of the glass, while improving visibility.

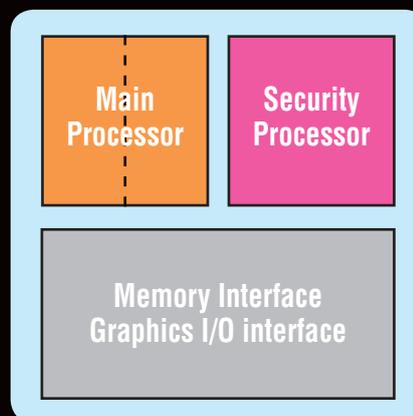


Security

Unique chip architecture features a third core dedicated to security, which provides a high level of tampering protection and frees up the dual multi-purpose CPU for other tasks.

The embedded security chip holds the security key and supports technologies such as storage encryption, SD card encryption, enhanced VPN, dual-factor authentication, trusted boot, root protection and device management. Marvell's premium embedded security hardware is FIPS 140-2 level 2 compliant for MOD use and HIPAA-ready for healthcare environments. The integrated hardware Kensington lock of the unit can prevent theft.

Marvell SoC (System on a Chip)



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Display

Glossy screens have made outdoor use of tablet a practical impossibility. The Toughpad changes the game. A high-brightness, 10.1" XGA, capacitive multi-touch, daylight-viewable screen with an anti-reflection coating means mobile users can easily see critical data and operate the device in outdoor lighting conditions.

As well as supporting up to 500-candela brightness, the display includes an ambient light sensor which measures surrounding ambient light and regulates backlight accordingly, protecting battery life.

The Toughpad also features a digitizer pen for signature capture and precise handwriting recognition, and an accelerometer to automatically rotate the display view between portrait and landscape.



Eco-system

A full range of professional-grade accessories support the Toughpad, including cases, mounts, printers, keyboards, smartcard readers and multi-unit storage and charging solutions.

Key sectors and functions

SECTOR	ANDROID APPLICATIONS
GOVERNMENT	Field inspection
AVIATION	EFB (Electronic Flight Bag)
MANUFACTURER	Factory maintenance
HEALTHCARE	Electronic patient record
UTILITIES	Light field service
TELECOM	POS, light field service
DISTRIBUTION	Simple DSD (Direct Store Delivery)
RETAIL	Mobile POS
FOOD	Order entry
AUTOMOTIVE	Workshop reception
INSURANCE	Customer presentation

Communication

The Toughpad is equipped with a 2MP front camera and 5MP back camera, featuring auto focus/LED-flash, providing high-quality pictures for documentation purposes, alongside simultaneous web conferencing.

The integrated stand-alone GPS provides precise signal strength and can be used together with the digital compass for exact route navigation. An optional HSPA+

wireless module can be integrated with high-speed download rates up to 21 Mbps and a lockable SIM card slot.

Battery

The high-capacity battery (33.9Wh), developed in the world-leading Panasonic R&D division, provides up to 10 hours' battery time under normal working conditions. The battery itself can be replaced where required, driving down service and device maintenance costs.

Manageability

The Toughpad FZ-A1 is compatible with a custom set of controls that provide IT managers with unprecedented power over their Android devices. This level of mobile device management (MDM) is essential for successfully deploying and managing Android tablets in the field.

These controls allow IT managers to distribute applications in a one-to-many environment, secure devices against unauthorised use and perform many other granular functions not possible with consumer-grade Android tablets. In conjunction with Redbend (MDM-ISV specialist), Panasonic will be offering "over the air" (WWAN/LAN) OS/application updates and custom image set ups on demand (project based).

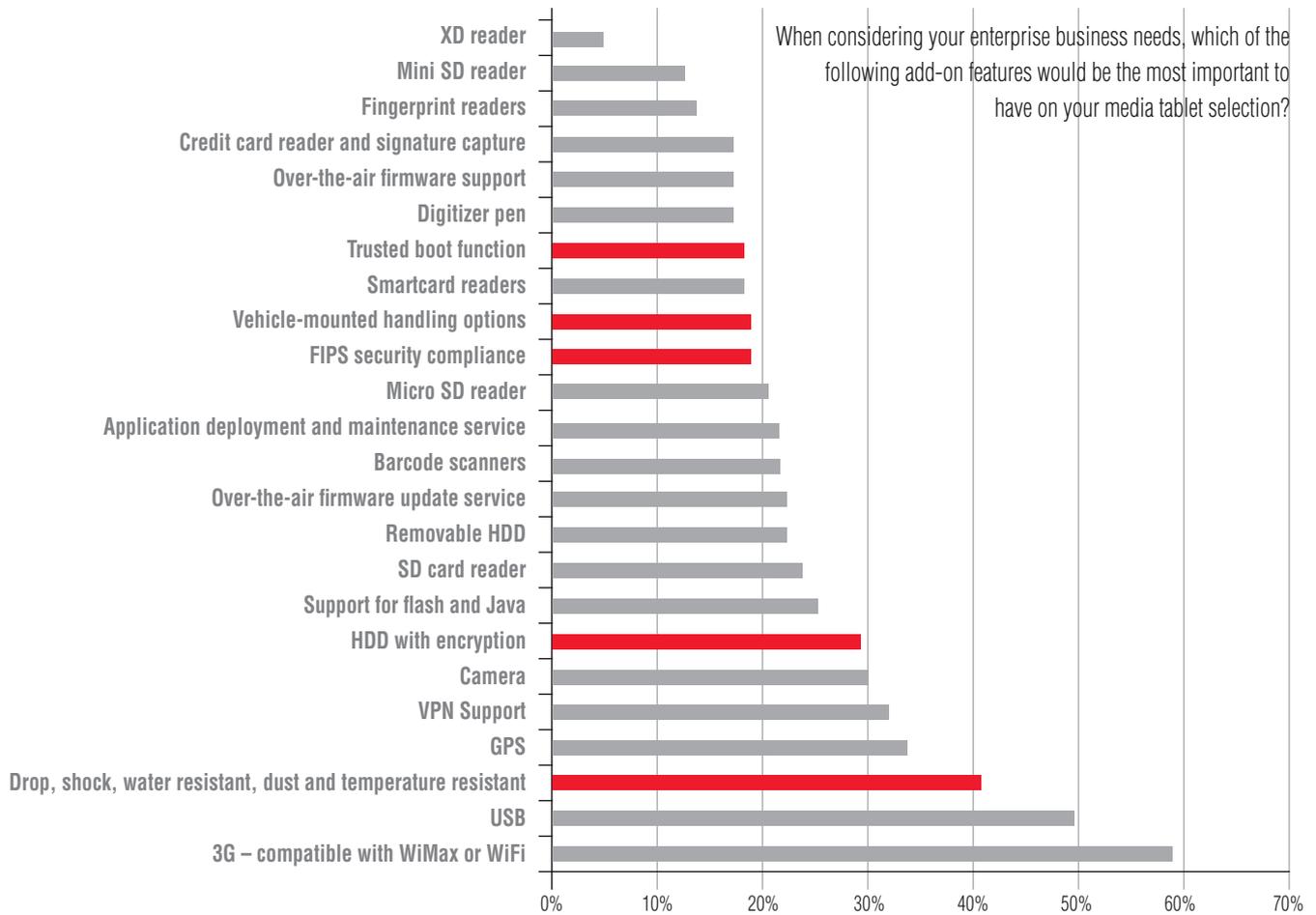


Toughbook provides the tools to access applications and data in the most challenging environments, results in solutions that transform operational efficiency.

Customers asked – now the Toughpad delivers

A recent IDC survey into enterprise computing asked which add-on features influence tablet purchasing decisions most.

Toughpad rates highly in a number of key areas...



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Where will the Toughpad be used?

Android tablets are appropriate for light content-consumption business applications, where instant broadband access, intuitive user-friendly touch GUI and mobile form factor (battery/weight/compact) is appreciated. Those include:

- Automated paper and pen processes/form completion
- Customer facing/sales assistant
- Thin client /Cloud computing
- Simple data collection and entry
- Simple task, direct store delivery applications
- Single mobile job dispatch functionality
- Light field applications



Toughpad selected features and specifications

OPERATING SYSTEM	Android™ 4.0 (Ice Cream Sandwich)
PROCESSOR	Marvell™ 1.2GHz dual core
STORAGE	16GB
OPTIONAL STORAGE	MicroSDHC optional up to 32GB
RAM	1GB LP-DDR2 RAM
DISPLAY	500 candela, daylight readable, 10.1" XGA (4:3), capacitive multi-touch with anti-reflective and anti-glare treatment and built in ambient light sensor
BATTERY LIFE	10 hours (serviceable battery)
WEIGHT	970g
DROP RATING	120cm
INGRESS PROTECTION	IP65
TEMPERATURE RATING	-10C to 50C (operational)
INPUTS	Micro-USB, microSDHC, micro HDMI
CAMERA	5MP rear, 2MP front
CONNECTIVITY/COMMS	3G, 802.11 a/b/g/n, Bluetooth v2.1 + EDR, Satellite GPS
SECURITY FEATURES	Hardware-level security, FIPS 140-2 level 2 compliant and HIPPA compliant, cable lock slot
DIMENSIONS	266.3mm x 17.0mm x 212.0mm

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