

■ Specifications

Model Number	FZ-A1
OS	Android™ 4.0
CPU	Marvell PXA2128, Dual Core CPU, 1.20 GHz
Main Memory	1GB*1 (LP-DDR2)
Storage	16GB*2 Flash and micro SDHC card (Max. 32GB)
Display Method	10.1" TFT Color LCD 1024x768 (XGA), AR film, 500nit, Aspect Ratio 4:3
Wireless LAN	IEEE802.11a/b/g/n
WWAN	3G/LTE*3, Built in antenna for 3G/LTE*3
Bluetooth	version 2.1 +EDR
Sound	Speaker: Water proof mono speaker Microphone: Mono microphone with echo cancel
GPS	Built-in
Wi-Fi Router	Built-in
Camera	Front: 2.0 Mega pixel, fixed focus Rear: 5.0 Mega pixel with LED flash, auto focus
Sensor	Digital Compass, Accelerometer, Ambient light sensor (for auto LCD back light control)
Interface	Docking Connector, micro USB 2.0, micro HDMI, micro SD, SIM card, Audio

Pointing Device	Capacitive multi touch screen and Digitizer	
Button	Power Button, User Button, Back Button, Home Button, Menu Button	
Power Supply	AC adaptor or Battery pack	
AC adaptor	Input: 100 V - 240 V AC, 50 Hz/60 Hz, Output: 12 V DC, 2 A	
Battery Pack	Li-ion 7.4 V, Typical 4770 mAh / Minimum 4590 mAh	
Operating Time*4	Approx. 10 hours	
Charge time*5	Approx. 2.5 hours for 90% at sleep mode	
Power Consumption	24W (Max)	
Physical Dimensions (W x D x H)	266.3mm x 17.5mm x 212.0mm {10.5" x 0.7" x 8.4"} (without protruding parts)	
Weight	993g {2.19 lb.} (no-WWAN model, without Pen)	
Environment	Operating Temperature	-10°C to 50°C {14°F to 122°F} (IEC60068-2-1, 2)*5
	Operating Humidity	30% to 80% RH (No condensation)
	Storage Temperature	-20°C to 60°C {-4°F to 140°F}
	Storage Humidity	30% to 90% RH (No condensation)
Security Features	Hardware	Security processor equivalent to FIPS140-2 level2
	Software	Trusted BOOT, AuthenTec QuickSec(VPN)
Pre-installed Application	Dashboard, User Button Manager, Device Management	

\*1 1MB=1,048,576bytes/1GB=1,073,741,824bytes \*2 1GB=1,000,000,000bytes. Your operating system or some application software will report as fewer GB. \*3 LTE is US only. \*4 Measured with LCD brightness : 60 cd/m2 Varies depending on the usage conditions, or when an optional device is attached. \*5 Varies depending on the usage conditions. \*6 Do not expose the skin to this product when using the product in a hot or cold environment. When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals. Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments. When using in low temperature environment, battery operation time may become short.  
 \*Android is a trademark of Google Inc. The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.  
 \*Due to printing considerations, the actual colors may vary slightly from these shown. \*Design and specifications are subject to change without notice.  
 \*Product labels contain important notice. \*Displays shown are composite photographs

(Your corporate information)



# Panasonic TOUGHPAD tackles problems that stump other tablets.

# TOUGHPAD



## Rugged

**120cm {4-foot} drop shock resistance, dust / water resistance, IP65 certified**

Taking full advantage of the outstanding technology used in the durable field mobile TOUGHBOOK PCs, TOUGHPAD design specifications comply with 120cm drop test requirements and IP65.



### What is IP65?

#### Dust resistance test (IP6x)



Air in PC is reduced a maximum of 2kPa and the unit is exposed to positive-flow dust for 8 hours

#### Water resistance test (IPx5)



All parts of the unit are exposed to 12.5 liters of water/min. from all directions at a distance of 2.5 to 3m

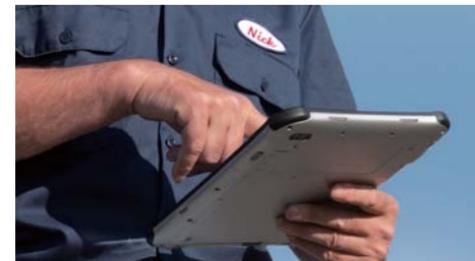
\*The photo shows TOUGHBOOK CF-31.  
\*The shock resistance, pressure resistance, and splash-proof functions are not a guarantee against damage or malfunction.



## Daylight-readable

**Up to 500cd/m<sup>2</sup> brightness LCD with anti-reflection film**

Processing the high-brightness LCD with anti-reflection (AR) prevention reduces the reflection ratio. You can view the display under direct sunlight.



## Secure

**Dedicated security processor core, FIPS 140-2 Level 2 compliant\***

It is equipped with a physically-separated internal security processor system on a chip. This enables storage of the cryptography key inside the security processor, which makes it possible to realize high security that prevents alteration or leakage of the key.

\*The SoC of FZ-A1 will be compliant with FIPS 140-2 level 2.



FZ-A1

Security Processor	
Data encryption	Encrypting data field using the cryptography key inside the security processor
Trusted boot	Prevents start-up after fraudulent alteration from outside the system

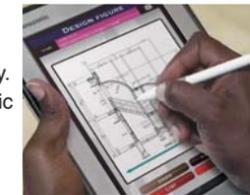
### What is the FIPS140-2?

FIPS stands for Federal Information Processing Standard, which stipulates requirements regarding cryptographic modules used by agencies of the United States Federal government. The FIPS specifies the handling of Sensitive but Unclassified (SBU) information.

Level 1	Level 2
Possible to achieve with software.	Requires built-in hardware security and other functions.

## Multi touch and Digitizer pen input

Multi-touch function lets you page scroll as well as turn and zoom images by simply touching the display. Also equipped with an electromagnetic induction type pen sensor (Digitizer), which allows you to write signatures on LCD.



Battery operation: approx. 10 hours

Durable yet light at 993g {2.19lb.}

Built-in 2-megapixel front camera and 5-megapixel rear camera

**TOUGHPAD enhances your business style.**

- Field Maintenance: Asset management
- Service Bays: Car maintenance and repair
- Service and Hospitality: Wireless order entry
- Retail: Mobile point of sales
- Field sales: For proposing insurance plans
- Healthcare: Electronic health record
- Government: Field inspection

\*Due to printing considerations, the actual colors may vary slightly from these shown.  
\*Design and specifications are subject to change without notice.  
\*Product labels contain important notice.