

PRELIMINARY



# TOUGHPAD **FZ-X1** MK1

## 5" FULLY RUGGED ANDROID HANDHELD TABLET

The Toughpad FZ-X1 brings together the best of handheld, tablet and barcode reader\* functionality into a single rugged and hard working 5" Toughpad. It is the ideal tool for mobile workers in the transportation & logistics, postal services, MoD, emergency & public safety, utilities, retail and manufacturing sectors. Thanks to its fully-rugged design with MIL-STD-810G certification, IP68 ratings and 3 metre drop resistance, the FZ-X1 promises a long life span and very low TCO. With operating temperatures of -20°C to +60°C, glove & rain-enabled daylight-readable display and a high capacity 6200mAh battery, field workers can operate anywhere, anytime and for as long as they need.

- Android™ 4.2.2
- Qualcomm® APQ8064T 1.7GHz Quad-core processor
- 2 GB RAM and 32GB eMMC storage
- 5" HD (1280 x 720) daylight-readable display with Glove & Rain mode
- MIL-STD 810G certified with 3 metre drop\*\* resistance
- IP68 rated\*\* (Submersible in water up to 1.5 metres for 30 minutes)
- Integrated 1D/2D Barcode reader\*
- User replaceable high capacity battery with hot swap function
- Up to 14 hours continuous data access time; up to 1000 hours standby time
- Enterprise level security (FIPS140-2 level-1 compliant & Built-in ARM® TrustZone®)
- 3 microphones for intelligent noise cancellation
- Loud volume twin speakers (up to 100 dB)
- -20°C to +60°C operating temperature

\* Optional. \*\*Tested at Panasonic factory.

**TOUGHPAD**
**Panasonic**

# TOUGHPAD FZ-X1MK1

## BIG ABILITY. SMALL DIMENSIONS.

Despite its small 5" display form factor, the FZ-X1 comes packed with the ability of a handheld tablet and barcode reader\* in a fully rugged IP68 water & dust proof design. Its state of the art Qualcomm® 1.7 GHz quadcore processor together with 2GB RAM guarantees high performance. The user replaceable and hot swappable 6200 mAh battery comes as standard and offers an amazing 14 hours of continuous data access; or 1000 hours in standby.



\*Optional.

\*\*Tested at Panasonic factory.

\*\*\*Battery life measurement conditions:  
Wireless LAN connection enabled;  
continuous access to the server while  
browsing; swipe every 1 second; page  
change every 30 seconds, communication  
every 30 seconds. All brand names shown  
are the registered trademarks of the  
relevant companies. All rights reserved.  
All working conditions, times and figures  
quoted are optimum or ideal levels and  
may differ as a result of individual and  
local circumstance. Specifications are  
subject to change without notice.  
Publication date: January 2015.

Mobile Computing Platform	Qualcomm® APQ8064T 1.7GHz Quad-core processor	
Operating System	Android™ 4.2.2	
RAM	2GB	
Graphic Chip	Adreno 320	
Display	5" HD (1280 x 720) display	
	10 point multi touch capacitive touchscreen with glove and rain modes	
	Daylight viewable (up to 500 cd/m2)	
	Anti-reflective and anti-glare screen treatments	
Storage	32 GB eMMC	
Storage Expansion	Micro SDXC card slot (max. 64 GB)	
Audio	3 mics (2x Front & 1x Rear)	2x Loud volume speaker (up to 100 dB)
	Dedicated noise suppressor chip	
Camera	Rear: 8 MP rear camera with LED light	Front: 1.3 MP
Sensors	Ambient light sensor, digital compass, gyro and acceleration sensors	
Power	Battery:	
	Li-ion 3.8V, 6200 mAh	User replaceable with hot swap function
	Battery Operating Time:	
	Up to 14 hours continuous data access***	Up to 1000 hours standby time
	Battery Charging Time:	
	50% charge in 1 hour (Quick charging)	Full charge in Approx. 3 hours
	AC Adapter:	
	Input: 100V-240V AC, 50Hz/60Hz, Output: 16V DC, 3.75A	
Interfaces	Micro USB 2.0:	x1 (For charging and Data Transfer)
	DC-in:	x1 (For quick charging)
	Docking Connector:	x1 (13-pin)
	Headset Jack:	x1 (3.5mm)
Wireless	Bluetooth:	v4.0 (class 1)
	WLAN:	IEEE802.11 a/b/g/n/ac
	GPS:	2m CEP50 (±2 to 4m) GLONASS
	NFC:	Yes (Felica Type A, Type B)
Security Features	FIPS140-2 level-1 compliant, Built-in ARM® TrustZone®	
Ruggedness	Fully rugged design with sealed ports, MIL-STD-810G certified, 3 metre drop resistant**	
	Raised bezel for LCD impact protection	
	IP68 rated** (submersible in water up to 1.5 metres for 30 minutes)	
Operating Environment	Temperature:	-20°C to +60°C
	Humidity:	30% to 90% RH
Physical Dimensions	87.4 (W) x 165mm (H) x 30.9mm (D)	
Weight	Without BCR: approx 426g, with BCR approx 432g	
Options	1D/2D Barcode reader (36 types of barcode supported)	
Accessories	Standard Adapter: CF-AA6373AM	Multi Battery Charger: FZ-VCBX111U
	AC Adapter for Multi Device Cradle (110W): CF-AA5713AM	Hand Strap: FZ-WSTX111
	Single Device Cradle: FZ-VEBX111U	Corner Ring: FZ-WCRX111
	Multi Device Cradle (4-bay): FZ-VEBX121U	Holster: FZ-VSTX111U
	Battery Pack (6200mAh): FZ-VZSUX100	

Dealer Details: