



PANASONIC TOUGH PAD™ COMPETITIVE COMPARISON CHART

		POPULAR CONSUMER-GRADE TABLETS					Comments
	Panasonic Toughpad FZ-A1	Panasonic Toughpad JT-B1	Apple iPad	Motorola Xyboard	Samsung Galaxy Tab™ 2	Toshiba Excite™	
RUGGED FEATURES							
Magnesium Alloy Chassis	X	X					The Toughpad is cast from lightweight magnesium for its superior castability, high strength and resistance to corrosion.
Elastomer Bumpers	X	X					Bumpers increase drop specification and protect the display in facedown drops.
Hardened Glass	X	X	X	X	X	X	The enclosure protects the computer to ensure all components stay functional, not just the chemically hardened glass.
Screen Protector	X	X					Protective film reduces the expense and downtime of having to replace worn LCDs. Installed films are aligned without bubbles or creases.
Covered Ports	X	X					Port covers enable superior ingress protection from dust and water.
Ruggedized Vehicle Mounting	X	X					The tablet and the docking station are designed to withstand the extreme vibrations of a moving vehicle.
Commercial-grade Accessories	X	X					Toughpad accessories are designed to survive in extreme user environments.
Ingress Protection	IP65	IP65					A higher rating ensures reliability and increased productivity in a wider range of operating conditions.
Drop Test Approved	4ft.	5ft.					Panasonic tests all 26 drops required to pass the MIL-STD-810G drop testing.
Operating Temperatures	14°F to 122°F	14°F to 122°F	32°F to 95°F	32°F to 95°F	N/A	41°F to 104°F	On a 93° day, temps in a car can reach 120° in less than 40 minutes.
Vibration Tested	X	X					Designed to meet MIL-STD-810G standards beyond vehicle vibration.
Temperature / Thermal Shock	X	X					The Toughpad is designed to survive a wide swing in temperatures that can produce thermal shock.
Independent Lab Certified	X	X					An independent nationally recognized lab will verify that the tablets meet all of the above MIL-STD-810G tests. At the time of this publication tests were in process; the complete test report will be available on the Toughpad website.
Standard Warranty	3 Year	3 Year	1 Year	1 Year	1 Year	1 Year	The Toughpad family comes standard with the industry's most comprehensive warranty.
KEY FEATURES							
Operating Systems	Android™ 4.0	Android™ 4.0	iOS v10	Android™ 3.2*	Android™ 4.0	Android™ 4.0	OS updates are critical in enterprise and government environments. Over-the-air services are available for the Toughpad.
Enterprise Ready	X	X					Panasonic's implementation of the Android OS enables several security features necessary for enterprise and government environments that consumer tablets don't have. Please see the "What Makes the Toughpad FZ-A1 Enterprise Ready?" pdf document available on the Toughpad website.
ARM Processor	1.2GHz Dual	1.5GHz Dual	A5x	1.2GHz Dual	1.0GHz Dual	Quad-Core	
Storage (Standard)	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB	
RAM	1 GB	1 GB	1 GB	1 GB	1 GB	1 GB	
Front Camera	X	X	X	X	X	X	Both cameras offer a high quality auto-focus feature.
Rear Camera	X	X	X	X	X	X	
Integrated Flash LED Light (Rear)	X	X		X			LED lighting allows the unit to illuminate dark objects.
Starting Weight	2.2 lbs.	1.2 lbs.	1.4 lbs.	1.3 lbs.	1.2 lbs.	1.3 lbs.	The tablet has a significant rugged and performance advantage for only a slight difference in weight and thickness.

*Upgradeable to Android™ 4.0

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KEY FEATURES (Cont.)								
Screen Size	DISPLAY	10.1"	7"	9.7"	10.1"	10.1"	10.1"	
Screen Resolution		1024 x 768	1024 x 600	2048 x 1536	1280 x 800	1280 x 800	1280 x 800	Most enterprise and government apps are formatted for VGA resolutions. The Toughpad display helps make app migration seamless.
Capacitive Multi-touch		X	X	X	X	X	X	The screen is specially treated to prevent dirt from adhering to the surface. Dirt and fingerprints can be removed easily with a dry cloth.
Digitizer		X						The digitizer pen improves accuracy for uses like signature capture and annotations. The capacitive display is functional with the pen even while the display is wet, keeping the user productive in any conditions.
Screen Brightness (nit)		500	500	N/A	N/A	N/A	N/A	Panasonic measures brightness to exceed industry standards that consumer devices don't.
Daylight-readable		X	X					A user's productivity in outdoor conditions is greatly improved when the screen is daylight-readable.
Anti-reflective Screen Treatment		X	X					Visual enhancements to reduce glare and reflection make the screen easier to see from wider angles.
Anti-glare Screen Treatment		X	X					
Approximate Battery Life		10 hours	8 hours	10 hours	10 hours	N/A	10 hours	
Battery		Panasonic Serviceable	User Replaceable					The Toughpad is designed to operate for years beyond the life of a consumer tablet, so it's important for the battery to be serviceable.
Mobile Device Management Compatibility		Google Data API™	Google Data API™	Google Data API™	3LM	Google Data API™	Google Data API™	MDM controls are available to IT administrators for device management, which is a requirement in enterprise and government environments. Some third-party software may be required.
OEM Managed App Store		Coming Soon	Coming Soon					An OEM managed app store allows the manufacturer to ensure the quality of tablet applications, and it offers services needed by IT managers to manage the devices in the field.
Embedded Hardware Encryption	ENHANCED DATA SECURITY	X						The Toughpad FZ-A1 is equipped with a dedicated processor to keep sensitive data secured from the main processor in the tablet.
Software Encryption			X					
SmartCard Reader Ready		X	X					The firmware of the Toughpad includes a persistent identitive driver for SmartCard reader compatibility.
AuthenTec QuickSec® or IPSec VPN Client		X	X					The firmware of the Toughpad FZ-A1 includes a persistent AuthenTec VPN client, which can support multiple gateways.
Trusted Boot		X	X					Trusted boot prevents employees or hackers from loading unsigned versions of the OS.
Root Protection		X	X					Root protection prevents "jail breaking," which keeps employees and hackers from modifying the internals of the OS.
Kensington Cable Lock Slot		X						A steel reinforced lock slot ensures physical security of the tablet.
FIPS 140-2 Compliant		Level 2	Level 1					The ARMADA PXA2128 processor used in the Toughpad FZ-A1 has been submitted by Marvell Registration for FIPS certification.

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KEY FEATURES (Cont.)								
Micro-USB	CONNECTIVITY	X	X		X	X	X	
MicroSD		X	X				X	
Micro HDMI		X			X		X	
Headphone / Mic.		X	X	Mic. Only	X		X	
Speaker		X	X	X	X	X	X	
Ethernet (Cradle Only)		X	X					
Dedicated GPS		X	X					A dedicated built-in GPS receiver is accurate up to 3 meters for professional use. Most consumer devices use an assisted carrier GPS service, called assisted GPS (a-GPS), which may require a network connection.
4G LTE Integrated Mobile Broadband		Option	Option	Option	Option			4G download speeds are approximately 10-100x faster than 3G download speeds on the same carrier. Samsung Galaxy Tab 2 only supports 3G. Toshiba Excite only supports Wi-Fi.
Bluetooth	X	X	X	X	X	X		
Wi-Fi Hot Spot	X	X	X	X	X	X	The Toughpad can serve as a Wi-Fi hot spot and share mobile broadband with up to 5 devices—a useful feature that reduces expensive carrier subscriptions.	

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