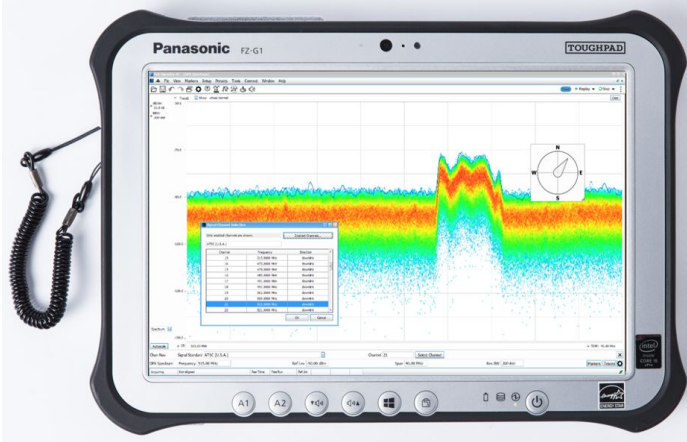# Tablet controller for Tektronix USB spectrum analyzers

Panasonic FZ-G1 Controller Datasheet (Offered by Tektronix)

Tektronix offers the Panasonic FZ-G1 tablet controller as an option to the RSA306B and RSA500A series USB spectrum analyzers and as a standalone unit. When purchased from Tektronix, the FZ-G1 includes pre-loaded SignalVu-PC software, with custom-programmed display settings and front-panel buttons to optimize the SignalVu-PC experience. In addition, Tektronix has tested the FZ-G1 to ensure that the specified real time performance of all USB spectrum analyzers is met with this configuration.

Key specifications

- Windows 10 Pro operating system
- Intel® Core i5-5300U 2.30GHz Processor (i5-4310U 2.00GHz in China)
- 8GB RAM
- 256 GB Solid State Drive
- 10.1" (25.6 cm) Daylight-readable screen
- USB 3.0 + HDMI Ports, 2nd USB Port

- Wi-Fi, Bluetooth®, and 4G LTE Multi Carrier Mobile Broadband and Satellite GPS
- MIL-STD-810G certified
- IP65 certified sealed all-weather design
- Integrated microphone and speaker
- On-screen and button volume and mute controls
- Integrated battery backup for hot-swap of battery packs
- 3-year Warranty with Business Class Support (provided by Panasonic in your region)

Combined with a Tektronix USB spectrum analyzer, the Panasonic FZ-G1 transforms your view of the spectrum in the field. It provides the largest screen of any portable solution and weighs but a fraction of a traditional portable spectrum analyzer in your hands.

Specifications

All specifications are guaranteed unless noted otherwise. All specifications apply to all models unless noted otherwise.
Published specifications from Panasonic are reproduced here. Latest revisions of the Panasonic FZ-G1 data sheets and operating instructions are available at
www.panasonic.com/toughpad. Specifications include those options selected by Tektronix to be included in the controller. Other versions of the FZ-G1 may or may not include these options.

Software

Microsoft	Windows 10 Pro
Panasonic	Utilities (including Dashboard), Recovery Partition
Tektronix	SignalVu-PC

CPU

CPU	Intel® Core i5-5300U 2.30GHz Processor (i5-4310U 2.00GHz in China)

Storage and memory

RAM	8 GB
Solid state drive	256 GB with heater

Display

Display	10.1" WUXGA 1920 x 1200 with LED backlighting
	10-point capacitive multi touch + digitizer daylight-readable screen
	2-800 nit
	IPS display with direct bonding
	Anti-reflective and anti-glare screen treatments
	Ambient light sensor, digital compass, gyro and acceleration sensors
	Automatic screen rotation

Audio

Audio	Integrated microphone
	Realtek high-definition audio
	Integrated speaker
	On-screen and button volume and mute controls

Keyboard and input

Keyboard and input	10-point multi touch + digitizer screen: supports bare hand touch and gestures and electronic stylus pen
	7 tablet buttons (2 user-definable)
	Integrated stylus holder
	On-screen QWERTY keyboard

Cameras

Cameras	720p web cam with mic
	3 MP rear camera with auto focus and LED light

Interface

Docking connector	24 pin
HDMI	Type A
Headphones/speaker	Mini-jack stereo
USB 3.0 (x1)	4 pin
USB 2.0 (x1)	4 pin

Wireless

Integrated 4G LTE	Multi-Carrier mobile broadband with satellite GPS
WLAN	Intel® Centrino® Advanced-N 6235 Wi-Fi 802.11a/b/g/n
Bluetooth®	V4.0 (Class 1) + EDR
Security	
Authentication:	LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
Encryption:	CKIP, TKIP, 128-bit and 64-bit WEP, and hardware AES

Power supply

Li-Ion battery pack	
Standard battery:	10.8 V, typical 4400 mAh, minimum 4100 mAh)
Long life battery:	10.8 V, typical 8700 mAh, minimum 9300 mAh)
Battery operation [1]	
Standard battery:	8 hours
Optional long life battery:	18.5 hours
Battery charging time	
Standard battery:	2.5 hours off, 3 hours on
Optional long life battery:	3 hours off, 4 hours on

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[1]   Approximate time. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

Power management

Power management	Suspend/Resume function, hibernation, and standby

Security features

Password security	Supervisor, user, hard disk lock
Cable lock	Kensington cable lock slot
Security chip	Trusted platform module (TPM) security chip v.1.2

Physical characteristics

Dimensions	10.6 inches (269.2 mm) x 7.4 inches (188 mm) x 0.8 inches (20.3 mm) L x W x H
Weight	
Standard battery	2.4 lbs. (1.14 kg)
Available long life battery	3.0 lbs. (1.36 kg)

Ordering information

FZ-G1-x and Option-CTRL-G1-x

Includes: battery, digitizer pen and tether, battery charger with power cord

Tablets can be ordered standalone, or added as an option to the RSA306B and RSA500A series spectrum analyzers.

Tablets ordered standalone

The FZ-G1 is available in limited geographies from Tektronix as shown in the ordering information below. If a tablet is not available in your geography from Tektronix, or if you prefer to purchase the unit from another supplier, any of these models can be purchased directly from Panasonic. The Panasonic part number is provided in the table below.

Item	Description	Regional availability	Panasonic part number
FZ-G1-N	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	Canada, Columbia, Ecuador, Mexico, Philippines, Singapore, United States	FZ-G1P5480VMk
FZ-G1F	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	China	FZ-G1FA3DXMR
FZ-G1-I	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	India	FZ-G1L3280CW
FZ-G1-E	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	Austria, Baltic States, Belgium, Bosnia, Bulgaria, Chile, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Indonesia, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, South Africa, Spain, Sweden, Thailand, Turkey	FZ-G1R2882TW
FZ-G1-U	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	Egypt, Kenya, Malaysia, United Kingdom	FZ-G1L2881MW
FZ-G1-B	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	Brazil	FZ-G1J2152MV
FZ-G1-J	Controller for USB Spectrum Analyzers, Panasonic ToughPad FZ-G1.	Japan	FZ-G1R3080VJ

Tablets ordered as options to spectrum analyzers

Tablets can be added as an option to the RSA306B, RSA503A and RSA507A spectrum analyzers with the option CRTL-G1-x nomenclature show below. The FZ-G1-J is not available as an option to instruments. See the individual instrument data sheets for more details.

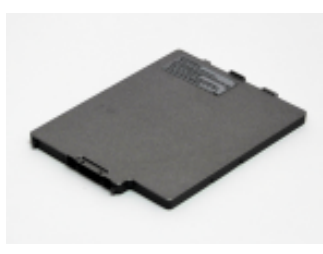| Option to Instrument	Description	Regional availability
Option CTRL-G1-B	Portable controller, Brazil power, see country list for availability	Brazil
Option FZ-G1F	Portable controller, China power, see country list for availability	China
Option CTRL-G1-E	Portable controller, Europe power, see country list for availability	Austria, Baltic States, Belgium, Bosnia, Bulgaria, Chile, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Indonesia, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, South Africa, Spain, Sweden, Thailand, Turkey
Option CTRL-G1-I	Portable controller, India power, see country list for availability	India
Option CTRL-G1-N	Portable controller, North America power, see country list for availability	Canada, Columbia, Ecuador, Mexico, Philippines, Singapore, United States
Option CTRL-G1-U	Portable controller, UK power, see country list for availability	Egypt, Kenya, Malaysia, United Kingdom

Warranty
FZ-G1 tablet: 3-year warranty with Business Class Support (provided by Panasonic in region of purchase).

Recommended accessories

FZ-G1 accessories

The FZ-G1 has a rich set of accessories available from Panasonic and third-party suppliers. Tektronix offers the most popular accessory items to aid in one-stop shopping. See Panasonic and third-party suppliers for other accessories.

	Item	Description
	FZ-VZSU84U [2]	Li-ion Battery, Standard Capacity
	FZ-VZSU88U [2]	Long-life battery pack for Panasonic ToughPad FZ-G1

[2] Not available in China, Hong Kong, Macau or Mongolia

	Item	Description
	FZ-BNDLG1BATCHRG	Single battery charger bundle for FZ-G1. 1 charger and 1 adapter
	CF-LNDDC120	Lind 120W 12-32 Volt input vehicle adapter for Toughbook and ToughPad
	TBCG1AONL-P	Panasonic Toughmate always on case for FZ-G1
	TBCG1XSTP-P	Infocase Toughmate X-strap for Panasonic FZ-G1

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tek.com.

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