Tektronix®

RTPA2A

The RTPA2A Real-time Probe Adapter extends the capabilities of Real-time Spectrum Analyzers (RTSA) by offering additional tools to make debugging today's high-performance electrical designs easier. Using the RTPA2A with Tektronix RTSA, design engineers can benefit from industry-leading Tektronix active and differential probes to measure signals on SMD pins and other challenging circuit features.

Notice to EU customers

This product is not updated to comply with the RoHS 2 Directive 2011/65/EU and will not be shipped to the EU. Customers may be able to purchase products from inventory that were placed on the EU market prior to July 22, 2017 until supplies are depleted. Tektronix is committed to helping you with your solution needs. Please contact your local sales representative for further assistance or to determine if alternative product(s) are available. Tektronix will continue service to the end of worldwide support life.

Key features

- Interface Tektronix P7000 series high-performance active and differential probes to Tektronix real-time spectrum analyzers

- Seamless Integration
  - Automatically scales measurement for probe attenuation setting
  - Simplifies setup for troubleshooting, eliminates possible setup errors, requires no user adjustment

- Extends the troubleshooting capabilities of Tektronix real-time spectrum analyzers with the world's best probes

- Troubleshoot and determine RF faults directly on circuit boards where no coaxial connection is available

- Use differential probes for high-impedance IQ baseband applications

Applications

- General RF troubleshooting – find sources of circuit interference

- EMI troubleshooting – help identify components and circuits causing EMI problems

- High-speed digital design – high dynamic range phase noise measurements

- High-impedance IQ baseband input for low-power RF devices

TekConnect® probe adapter for real-time spectrum analyzers

The RTPA2A provides probe power for up to two Tektronix P7000 Series probes through an external power supply. Probe control signals are handled through a USB cable that connects the RTPA2A to the RTSA. This allows the RTSA to automatically adjust the scale factor to account for attenuation factor of the probe in channel A. The included SMA-to-N cable allows the high-speed RF signal to travel between the RTPA2A and the RTSA.

Tektronix high-performance probing solutions

Tektronix offers a variety of industry-leading active and differential probes. Tektronix high-performance probes feature small probe heads and numerous adapters to provide a flexible and reliable connection to the Device Under Test (DUT).

Specifications

All specifications are guaranteed unless noted otherwise. All specifications apply to all models unless noted otherwise.

Nominal characteristics

Probe input connectors	TekConnect probe interface compatible with P7000 Series probes
Signal output connector	SMA
Impedance	50 Ω
Bandwidth	> 18 GHz

Physical characteristics

Dimensions

Width	70 mm/ 2.75 in
Height	110 mm/ 4.25 in
Length	42 mm/ 1.625 in
Cable length	1 m/ 35 in
Weight	1.07 kg/ 2.36 lb

Ordering information

Models

RTPA2A   Real-time Spectrum Analyzer TekConnect® Probe Adapter

Includes: User manual, 50 Ω SMA-to-N cable, USB cable, power cord, and power supply.

Please specify manual and power plug options when ordering.

Manual options

Opt. L0   English user manual

Opt. L5   Japanese user manual

Power plug options

Opt. A0   North America power plug (115 V, 60 Hz)

Opt. A1   Universal Euro power plug (220 V, 50 Hz)

Opt. A2   United Kingdom power plug (240 V, 50 Hz)

Opt. A3   Australia power plug (240 V, 50 Hz)

Opt. A4   North America power plug (240 V, 50 Hz)

Opt. A5   Switzerland power plug (220 V, 50 Hz)

Opt. A6   Japan power plug (100 V, 50/60 Hz)

Opt. A10   China power plug (50 Hz)

Opt. A99   No power cord

Service options

Opt. R3   Repair Service 3 Years (including warranty)

Opt. R5   Repair Service 5 Years (including warranty)

Compatible spectrum analyzers

RSA2200A Series

RSA3000B Series

RSA3300A Series

RSA3408A

RSA5000 Series

RSA6000 Series

WCA200A Series

SPECMON

Recommended probes

Recommended probes	P7225 2.5 GHz Active Probe
	P7240 4 GHz Active Probe
	P7330 3.5 GHz Differential Probe
	P7350 5 GHz Differential Probe
	P7340A 4 GHz Z-Active Differential Probe
	P7360A 6 GHz Z-Active Differential Probe
	P7380A 8 GHz Z-Active Differential Probe
	P7313 >12.5 GHz Z-Active Differential Probe
	P7313SMA 13 GHz Differential SMA Probe
	P7504 4 GHz TriMode Probe
	P7506 6 GHz TriMode Probe
	P7508 8 GHz TriMode Probe
	P7513A 13 GHz TriMode Probe
	P7516 16 GHz TriMode Probe
	P7520A 20 GHz TriMode Probe
Not compatible with the following probes and adapters:	P7625
	P7633
	P7708
	P7713
	P7716
	P7720
	TCA-1MEG
	TCA-BNC
	TCA-VPI150
	TCA292D
	TCA75
Legacy TekConnect probes	Unless otherwise excluded, legacy TekConnect probes are also supported by the RTPA2A.

Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

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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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