

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.

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.

Microsoft Windows XP is required on the RTSA to communicate with the RTPA2A. The RTSA also requires main system software shipped after August 2005 to be compatible with the RTPA2A.

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 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.
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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, 110/120 V, 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)
Opt. SILV600	Standard warranty extended to 5 years

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
	P7260 6 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:	P7633
	P7630
	P7625
	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.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3010
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea 001 800 8255 2835
Spain 00800 2255 4835*
Taiwan 886 (2) 2722 9622

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

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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.tektronix.com.

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