

# RTSA TekConnect® Probe Adapter

## RTPA2A Data Sheet



### Features & Benefits

- 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
- High-speed Digital Design – High Dynamic Range Phase Noise Measurements
- EMI Troubleshooting – Help Identify Components and Circuits Causing EMI Problems
- High-impedance IQ Baseband Input for Low-power RF Devices

### TekConnect® Probe Adapter for Real-time Spectrum Analyzers

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.

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).

## Characteristics

Characteristic	Description
Probe Input Connectors	TekConnect probe interface compatible with P7000 Series probes
Signal Output Connector	SMA
Input/Output Impedance	50 $\Omega$
Bandwidth	18 GHz

### Physical Characteristics

Dimensions	mm	in.
Width	70	2.75
Height	110	4.25
Depth	42	1.625
Cable Length	1000	36
Weight	kg	lb.
Net	1.07	2.36

## Ordering Information

### RTPA2A

Real-time Spectrum Analyzer TekConnect® Probe Adapter

**Includes:** User manual, 50  $\Omega$  SMA-to-N cable, USB cable, power cord, and power supply.

Please specify power plug option when ordering.

### Options

#### Manual Options

Option	Description
L0	English User Manual
L5	Japanese User Manual

#### Power Plug Options

Option	Description
A0	US Plug, 115 V, 60 Hz
A1	Euro Plug, 220 V, 50 Hz
A2	UK Plug, 240 V, 50 Hz
A3	Australia Plug, 240 V, 50 Hz
A4	N. America Plug, 240 V, 50 Hz
A5	Switzerland Plug, 220 V, 50 Hz
A6	Japan Plug, 100/110/120 V, 60 Hz
A10	China Plug, 50 Hz
A99	No Power Cord

## Service Options

Option	Description
R3	Repair Service 3 Years
R5	Repair Service 5 Years

## Real-time Spectrum Analyzers

The RTPA2A is compatible with all Tektronix Real-time Spectrum Analyzers:

RSA2200A Series  
 RSA3000B Series  
 RSA3300A Series  
 RSA3408A  
 RSA6000 Series  
 WCA200A Series

## Recommended Probes

Probe	Description
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
P7350SMA	5 GHz Differential SMA Probe
P7340A	4 GHz Z-Active Differential Probe
P7360A	6 GHz Z-Active Differential Probe
P7380A	8 GHz Z-Active Differential Probe
P7380SMA	8 GHz Differential Signal Acquisition System
P7313	>12.5 GHz Z-Active Differential Probe
P7313SMA	13 GHz Differential SMA Probe
P7500 Series	4 GHz to 20 GHz TriMode Probes



Product(s) are manufactured in ISO registered facilities.



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



**Contact Tektronix:**

**ASEAN / Australasia** (65) 6356 3900  
**Austria** 00800 2255 4835\*  
**Balkans, Israel, South Africa and other ISE Countries** +41 52 675 3777  
**Belgium** 00800 2255 4835\*  
**Brazil** +55 (11) 3759 7600  
**Canada** 1 800 833 9200  
**Central East Europe, Ukraine, and the Baltics** +41 52 675 3777  
**Central Europe & Greece** +41 52 675 3777  
**Denmark** +45 80 88 1401  
**Finland** +41 52 675 3777  
**France** 00800 2255 4835\*  
**Germany** 00800 2255 4835\*  
**Hong Kong** 400 820 5835  
**India** 000 800 650 1835  
**Italy** 00800 2255 4835\*  
**Japan** 81 (3) 6714 3010  
**Luxembourg** +41 52 675 3777  
**Mexico, Central/South America & Caribbean** (52) 56 04 50 90  
**Middle East, Asia, and North Africa** +41 52 675 3777  
**The Netherlands** 00800 2255 4835\*  
**Norway** 800 16098  
**People's Republic of China** 400 820 5835  
**Poland** +41 52 675 3777  
**Portugal** 80 08 12370  
**Republic of Korea** 001 800 8255 2835  
**Russia & CIS** +7 (495) 7484900  
**South Africa** +41 52 675 3777  
**Spain** 00800 2255 4835\*  
**Sweden** 00800 2255 4835\*  
**Switzerland** 00800 2255 4835\*  
**Taiwan** 886 (2) 2722 9622  
**United Kingdom & Ireland** 00800 2255 4835\*  
**USA** 1 800 833 9200

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

Updated 25 May 2010

**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](http://www.tektronix.com)



Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.

26 Jul 2010

51W-19031-2

[www.tektronix.com](http://www.tektronix.com)



Distributed by:  
[www.SignalTestInc.com](http://www.SignalTestInc.com)  
1529 Santiago Ridge Way  
San Diego, CA 92154 USA.  
[Sales@SignalTestInc.com](mailto:Sales@SignalTestInc.com)

