

# Real-time Spectrum Analyzer TekConnect® Probe Adapter

## ► RTPA2A



## 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 Tektronix' industry-leading 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. The 8 GHz P7380 differential probe enables true differential probing of electrical signals. The 8 GHz P7380SMA differential probe provides a true differential SMA input. Tektronix' high-performance probes feature small probe heads and numerous adapters to provide a flexible and reliable connection to the device under test (DUT).

## ► Features & Benefits

Interface Tektronix P7000 Series High-performance Active and Differential Probes to RSA2200A Series, RSA3300A Series, RSA3408A or WCA200A Series 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

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## ▶ Characteristics

### Probe Input Connectors –

TekConnect® probe interface compatible with P7000 Series probes.

**Signal Output Connector – SMA.**

**Input/Output Impedance – 50 Ω.**

### Physical Characteristics

Dimensions	mm	in.
Width	70	2.75
Height	110	4.25
Depth	42	1.625
Cable Length	1000	36
<b>Weight</b>	<b>kg</b>	<b>lbs.</b>
Net	1.07	2.36

## ▶ Ordering Information

### RTPA2A

Real-time Probe Adapter.

**Includes:** User Manual, 50 Ω SMA-to-N Cable, USB Cable, Power Cord, Power Supply and Cable.

### Options

#### Manual Options

**Opt. L0** – English User Manual.

**Opt. L5** – Japanese User Manual.

#### Power Plug Options

**Opt. A0** – US Plug, 115 V, 60 Hz.

**Opt. A1** – Euro Plug, 220 V, 50 Hz.

**Opt. A2** – UK Plug, 240 V, 50 Hz.

**Opt. A3** – Australia Plug, 240 V, 50 Hz.

**Opt. A4** – N. America Plug, 240 V, 50 Hz.

**Opt. A5** – Switzerland Plug, 220 V, 50 Hz.

**Opt. A6** – Japan Plug, 100/110/120 V, 60 Hz.

**Opt. A10** – China Plug, 50 Hz.

**Opt. A99** – No power cord.

### Service Options

**Opt. R3** – Repair Service 3 Years.

**Opt. R5** – Repair Service 5 Years.

### Real-time Spectrum Analyzers

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

▶ RSA2200A Series

▶ RSA3300A Series

▶ RSA3408A

▶ WCA200A Series

### 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.

**P7350SMA** – 5 GHz Differential SMA Probe.

**P7380** – 8 GHz Z-Active Differential Probe.

**P7380SMA** – 8 GHz Differential Signal Acquisition System.

**P7313** – >12.5 GHz Z-Active Differential Probe.

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Updated 15 June 2005

Our most up-to-date product information is available at:

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



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.

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8/05 MHAWOW

51W-19031-1

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