

T2A 探头接口适配器

- 使 Tektronix TekProbe-BNC 2 级探头可以连接到 Keysight InfiniiVision 3000 X、4000 X、6000 X、5000、6000 和 7000 系列示波器上的 AutoProbe 接口
- 易于使用的插入式适配器，适用于是德科技示波器的 AutoProbe 接口
- 为已连接的 TekProbe 探头提供必要的探头电源、校准和偏置控制电路



N2744A T2A 接口适配器支持配有 AutoProbe 接口的是德科技示波器上使用指定的 TekProbe 接口 2 级探头。现有的 TekProbe-BNC 探头可插入 T2A 适配器，适配器再直接插入 InfiniiVision 或 Infiniium 示波器上的任意 AutoProbe 输入通道。您在示波器菜单中选定探头型号之后，是德科技示波器会自动设置衰减系数和探头类型。T2A 接口适配器可以为已连接的 TekProbe 探头提供必要的探头电源、校准（仅针对指定型号）以及偏置控制电路。这款适配器使客户能够结合使用配有 TekProbe-BNC 2 级接口的泰克有源探头和配有 AutoProbe 接口的是德科技示波器。

泰克探头兼容性

N2744A T2A 适配器只支持 TekProbe 接口中列出的探头。

交流/直流电流探头

TCP202	50 MHz 交流/直流电流探头
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单端有源探头

P6243	单端有源探头, 1 GHz, 10:1, 无偏置控制电路
P6245	单端有源探头, 1.5 GHz, 10:1, 配有偏置控制电路
P6205	单端有源探头, 750 MHz, 10:1, 无偏置控制电路
P6241	单端有源探头, 4 GHz, 10:1, 配有偏置控制电路
P6249	单端有源探头, 4 GHz, 5:1, 配有偏置控制电路

差分有源探头

P5205 或 P5205A	差分探头, 100 MHz, 50:1/500:1, 配有偏置控制电路
P5210 或 P5210A	差分探头, 50 MHz, 100:1/1000:1, 配有偏置控制电路
P6246	400 MHz, 10:1/1:1, 配有偏置控制电路
P6247	1 GHz, 10:1/1:1, 配有偏置控制电路
P6248	1.5 GHz, 10:1/1:1, 配有偏置控制电路
P6250	500 MHz, 50:1/5:1, 配有偏置控制电路
P6251	1 GHz, 50:1/5:1, 配有偏置控制电路

是德科技示波器的兼容性

- Keysight InfiniiVision 6000 X 系列, 软件版本为 6.00 或以上
- Keysight InfiniiVision 3000 X/4000 X 系列, 软件版本为 1.10 或以上
- Keysight InfiniiVision 5000、6000 和 7000 系列以及未来型号 (不包括 6000 系列 100 MHz 型号), 软件版本为 06.16 或以上

光电转换器 (只与配有 6.16 版本软件的 InfiniiVision 5000、6000 和 7000 系列示波器一起使用)

P6701B	1 GHz 光电转换器, 配有 FC/PC 连接器
P6703B	1.2 GHz 光电转换器, 配有 FC/PC 连接器
P6711	250 MHz 光电转换器
P6713	300 MHz 光电转换器

订货信息

N2744A	T2A 探头接口适配器
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推荐用于中/低速总线测量的探头

应用	速度和信号类型	推荐的探头	所需的探头带宽
LIN	625 kbps, 单端	单端无源 (高阻抗)	> 50 MHz
ARINC 425	100 kbps, 差分	N2792A/N2818A	200 MHz
CAN 2.0	5 Mbps, 差分	N2792A/N2818A	200 MHz
CAN FD	10 Mbps, 差分	N2792A/N2818A	200 MHz
军标 1553	1 Mbps, 差分	单端无源	> 100 MHz
+/-25Vpp	N2792A/N2818A	200 MHz	> 100 MHz
I2S (音频)	~2.8 MHz, 单端	单端无源 (高阻抗)	> 100 MHz
I2C/SMBus	< 4 MHz, 单端	单端无源 (高阻抗)	> 100 MHz
RS232/UART	< 10 Mbps, 单端	单端无源 (高阻抗)	> 100 MHz
RS422/485	10 Mbps, 差分	N2792A/N2818A	200 MHz
Flexray	10 Mbps, 差分	N2792A/N2818A	200 MHz
SPI	1 - 100MHz, 单端	单端无源 (高阻抗) 或 N2795A	> 100 MHz 无源或 1 GHz 有源
MOST	150 Mbps, 差分	N2750A	1.5 GHz
USB2.0	480 Mbps, 差分	N2750A	1.5 GHz
USB 供电	300 kbps, 单端	单端无源 (高阻抗)	> 50 MHz

N2744A T2A Probe Interface Adapter

Product Overview

The Keysight Technologies, Inc. N2744A T2A interface adapter enables selected Tektronix TekProbe interface level II probes to be used with Keysight oscilloscopes with the AutoProbe I interface. Existing TekProbe-BNC probe types can simply be plugged into the T2A adapter, which is then plugged directly into any AutoProbe input channel on an InfiniiVision or Infiniium oscilloscope. Select the probe model in the probe menu, and the Keysight oscilloscope sets up the attenuation factor and the probe type automatically. The T2A interface adapter supplies the necessary probe power and offset control as used by the connected TekProbe probe. The adapter is targeted for customers using both Tek active probes with TekProbe-BNC level II interfaces and Keysight oscilloscopes with the AutoProbe interface.

TekProbe Compatibility

The N2744A T2A adapter supports only the probes listed below.

Probe / Probe Type	InfiniiVision		Infiniium
	3000X/T ¹ , 4000X, 6000X	5000 ² , 6000 ² , 7000 ²	9000 ³ , 90000 ³ , S-Series, EXR-Series, MXR-Series, V-Series ³ , Z-Series ³
AC/DC Current Probe			
TCP202	✓	✓	✓
Single-ended Active Probes			
P6243, P6245, P6205, P6241, P6249	✓	✓	✓
Differential Active Probes			
P5205/P5205A ⁴ , P5210/P5210A ⁴	✓	✓	
P6246, P6247, P6248, P6250, P6251	✓	✓	✓
Optical-to-Electrical Converters			
P6701B, P6703B, P6711, P6713		✓	

1. Software version 1.10 or higher.

2. Software version 06.16 or higher. N2744A is not compatible with 6000 100 MHz scope.

3. Software version 03.11 or higher.

4. On the oscilloscope, select P5205 in the probe listing when using a P5205A, and select P5210 in the probe listing when using a P5210A. N5442A InfiniiMax adapter required.

Highlights

- Enables TekProbe-BNC™ level II probes to connect to Keysight's AutoProbe interface on supported Keysight InfiniiVision and Infiniium oscilloscopes; see compatibility table for details
- An easy-to-use plug-on adapter to the Keysight oscilloscope's AutoProbe interface
- Provides necessary power, offset control and calibration as needed to the attached TekProbe probe



Performance characteristics

Electrical

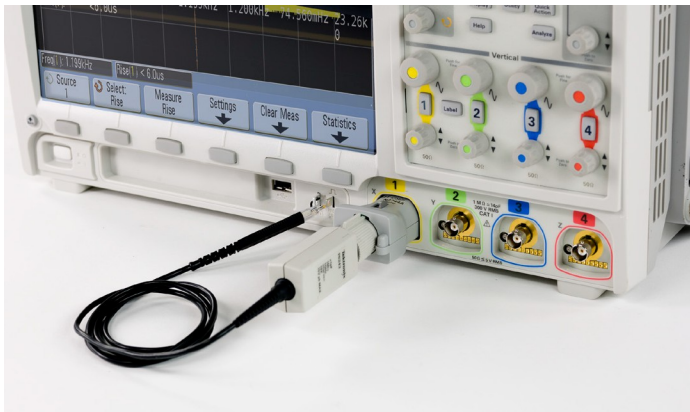
Bandwidth	4 GHz (adapter only)
Power supplies	+15 V, +5 V, -5 V, -15 V (each $\pm 2\%$)
Max output current	200 mA for positive and negative supplies
Offset control range	± 1 V (for the adapter)
Max input voltage	± 42 V _{PEAK} , ± 30 V _{RMS}

Environmental

Operating temperature range	0 to +50 C
Non-operating temperature range	-40 to +70 C
Humidity	95% RH at 50 C
Altitude	4000 m

Physical

Dimensions	37 mm x 29.5 mm x 58 mm (W x L x D)
Weight	45 g



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