

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

TEKTRONIX

Tektronix P7313 12.5GHz Active Differential TekConnect Oscilloscope

Tektronix P7313 12.5 GHz Z-Active Differential Probe (TekConnect) The Tektronix P7313 is a Z-Active differential probe with >12.5 GHz typical bandwidth and TekConnect interface for high-speed serial and differential signaling on Tektronix real-time oscilloscopes. User-selectable 5× / 25× attenuation, low AC loading, and high CMRR support accurate eye and jitter measurements with solder-in and interchangeable tip-clip accessories. The Tektronix P7313 is a Z-Active differential probe with >12.5 GHz typical bandwidth and TekConnect interface for high-speed serial and differential signaling on Tektronix real-time oscilloscopes. User-selectable 5× / 25× attenuation, low AC loading, and high CMRR support accurate eye and jitter measurements with solder-in and interchangeable tip-clip accessories.



MODEL

Tektronix P7313

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

P7313

LISTING

<https://aumictechlabs.com/products/p7313-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Tektronix P7313 is a 12.5 GHz active differential probe engineered for high-fidelity measurement of high-speed differential signals in complex digital designs and serial bus applications. Built on Z-Active probing architecture, it delivers >12.5 GHz bandwidth with 200 Ω out to 10 GHz. Linear dynamic range reaches 1.25 Vp-p at 5x attenuation and 4 Vp-p at 25x attenuation. The probe integrates with TekConnect oscilloscopes through a TekConnect interface

and includes phase-matched SMA cables (38-inch length, 12.5 GHz (Typical) Risetime (10%–90%): <40 ps (Guaranteed) Risetime (20%–80%): 200 Ω to 10 GHz Termination Voltage Range: +3.6 V to –2.5 V Cable Skew: <1 ps (38-inch phase-matched SMA cables) Key Features Differential and single-ended (ground-referenced) measurement capability Multiple connection methods: solder-down, handheld with variable spacing, and fixtured probing Interchangeable Tip-Clip™ assemblies for device connectivity High CMRR and low noise via Z-Active architecture Auxiliary inverted output for spectrum/network analyzer integration Controllable termination voltage with common mode DC input Phase-matched cables with integrated loss compensation Typical Applications PCI Express Serial ATA USB MIPI M-PHY HDMI DisplayPort LPDDR2/3 DDRII/DDRIII FireWire 1394b Rambus XAUI Compatibility & Integration TekConnect interface for compatible oscilloscopes 50 Ω differential SMA inputs Supports external or automatic termination voltage control

Features & description

From manufacturer datasheet

Features

• Bandwidth >12.5 GHz typical • Guaranteed 10%–90% rise time <40 ps • Attenuation 5× or 25×, user selectable • Linear dynamic range 1.25 Vp-p (5×) / 4 Vp-p (25×) • DC input resistance 100 kΩ differential / 50 kΩ single-ended • TekConnect interface; 1.2 m cable • Tip-clip and flex tip accessory system

Applications

• High-speed serial differential link characterization • DDR / SerDes / backplane signal integrity • Low-loading probing of tightly spaced differential pairs • Compliance and debug with TekConnect oscilloscopes

P7313 Characteristics / Specifications

PARAMETER	VALUE
Model	P7313
Manufacturer	Tektronix
Instrument Type	Z-Active Differential Probe
Interface	TekConnect
Bandwidth Typical	>12.5 GHz
Attenuation	5× or 25×, user selectable
Linear Dynamic Range 5x	1.25 Vp-p
Linear Dynamic Range 25x	4 Vp-p
Differential Input Range 5x	±0.625 V
Differential Input Range 25x	±2.0 V
Operating Voltage Window	+4.0 V to -3.0 V
Offset Voltage Range	+4.0 V to -3.0 V
DC Input Resistance Differential	100 kΩ
AC Loading Differential Zmin	>200 Ω out to 10 GHz
Nondestructive Input Range	±15 V (DC + peak AC)
Noise 5x	<31 nV/√Hz
Noise 25x	<75 nV/√Hz
CMRR at 1 MHz	>50 dB
CMRR at 1 GHz	>35 dB
CMRR at 6 GHz	>20 dB
CMRR at 12.5 GHz	>15 dB
DC Attenuation Accuracy	±2%
Cable Length	1.2 m
Probe Head Operating Temperature	-35 °C to 85 °C Notes Specs from Tektronix Z-Active Differential Probe Family (P7313) datasheet and P7313 technical reference. Do not confuse with P7313SMA (separate SMA-input model). Confirm tip-clip assembly for warranted rise-time configurations.

PARAMETER	VALUE
Bandwidth	and TekConnect interface for high-speed serial and differential signaling on Tektronix real-time oscilloscopes. User-selectable 5× / 25× attenuation, low AC loading, and high CMRR support accurate eye and jitter measurements with solder-in and interc
Rise Time	<40 ps - Attenuation 5× or 25×, user selectable - Linear dynamic range 1.25 Vp-p (5×) / 4 Vp-p (25×) - DC input resistance 100 kΩ differential / 50 kΩ single-ended - TekConnect interface; 1.2 m cable - Tip-clip and flex tip accessory system
Operating temperature	–35 °C to 85 °C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	−35 °C to 85 °C
Operating Temperature	−35 °C to 85 °C

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	P7313
Manufacturer	Tektronix
Instrument Type	Z-Active Differential Probe
Interface	TekConnect
Bandwidth Typical	>12.5 GHz
Rise Time 10%-90% Guaranteed: <40 ps Rise Time 20%-80% Typical: <25 ps	
Specifications	
PARAMETER	VALUE
Attenuation	5× or 25×, user selectable
Linear Dynamic Range 5x	1.25 Vp-p
Linear Dynamic Range 25x	4 Vp-p
Differential Input Range 5x	±0.625 V
Differential Input Range 25x	±2.0 V
Operating Voltage Window	+4.0 V to -3.0 V
Offset Voltage Range	+4.0 V to -3.0 V
DC Input Resistance Differential	100 kΩ
DC Input Resistance Single-Ended: 50 kΩ	
Specifications	
PARAMETER	VALUE
AC Loading Differential Zmin	>200 Ω out to 10 GHz
Nondestructive Input Range	±15 V (DC + peak AC)
Noise 5x	<31 nV/√Hz
Noise 25x	<75 nV/√Hz
CMRR at 1 MHz	>50 dB

PARAMETER	VALUE
CMRR at 1 GHz	>35 dB
CMRR at 6 GHz	>20 dB
CMRR at 12.5 GHz	>15 dB
DC Attenuation Accuracy	±2%
Cable Length	1.2 m
Probe Head Operating Temperature	-35 °C to 85 °C

Notes

Specs from Tektronix Z-Active Differential Probe Family (P7313) datasheet and P7313 technical reference. Do not confuse with P7313SMA (separate SMA-input model). Confirm tip-clip assembly for warranted rise-time configurations.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.