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Data Sheet

August 13, 2026

TELEDYNE LECROY

Teledyne LeCroy ZD1500 Differential Probe

Teledyne LeCroy ZD1500 1.5 GHz Active Differential Probe The Teledyne LeCroy ZD1500 is a 1.5 GHz warranted (about 1.7 GHz typical) active differential probe with less than 1.0 pF differential input capacitance and ProBus interface. It shares the ZD Series dynamic range of +/-8 V differential (16 Vp-p), +/-10 V common mode, and +/-18 V differential offset, with about 270 ps (10-90%) typical rise time and about 1.75 mVrms system noise. Designed for full system bandwidth on compatible LeCroy oscilloscopes without an external probe power supply. The Teledyne LeCroy ZD1500 is a 1.5 GHz warranted (about 1.7 GHz typical) active differential probe with less than 1.0 pF differential input capacitance and ProBus interface. It shares the ZD Series dynamic range of +/-8 V differential (16 Vp-p), +/-10 V common mode, and +/-18 V differential offset, with about 270 ps (10-90%) typical rise time and about 1.75 mVrms system noise. Designed for full system bandwidth on compatible LeCroy oscilloscopes without an external probe power supply. High-speed serial data differential probing; automotive and embedded signal integrity to 1.5 GHz; low-capacitance differential measurements; ProBus-enabled LeCroy scope systems.



MODEL

**Teledyne LeCroy
ZD1500**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZD1500

LISTING

<https://aumictechlabs.com/products/zd1500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Teledyne LeCroy ZD1500 is an active differential probe engineered for high-speed digital signal integrity measurements. Operating at 1.5 GHz warranted bandwidth with 1.7 GHz typical

performance, the probe delivers 270 ps rise time (10–90%) and minimal input capacitance below 1.0 pF differential. ProBus integration with compatible LeCroy oscilloscopes enables direct gain and offset control from the instrument front panel, eliminating external power supply requirements. The probe achieves exceptional common-mode rejection - 60 dB at 50/60 Hz and 25 dB at 1500 MHz - with typical system noise of 1.75 mVrms and noise density of 38 nV/√Hz. Its low input resistance in differential mode (120 kΩ) and high common-mode input impedance (1 MΩ nominal) minimize circuit loading while preserving measurement fidelity across demanding test points. The ZD1500 handles differential input ranges to ±8 V (18 Vp-p), common-mode ranges to ±10 V, and withstands 30 V maximum non-destructive input voltage. Compact probe head design and included accessory kit support measurements in confined spaces and complex signal routing scenarios.

Technical Specifications

Bandwidth:	1.5 GHz (warranted), 1.7 GHz (typical)
Rise Time:	270 ps (10–90%), 200 ps (20–80%)
Input Capacitance:	<1.0 pF differential; 2 pF per side
Input Impedance:	120 kΩ differential; 1 MΩ common-mode (nominal)
Differential Input Range:	±8 V (18 Vp-p)
Common-Mode Range:	±10 V
Maximum Non-destructive Voltage:	30 V
System Noise:	1.75 mVrms (typical)
Noise Density:	38 nV/√Hz
CMRR:	60 dB @ 50/60 Hz; 25 dB @ 1500 MHz
Zero Offset:	5 mV typical (within 15 minutes post auto-zero)
Attenuation:	1:1 and 10:1

Key Features

- ProBus interface for direct oscilloscope control
- No external power supply required with compatible instruments
- Low input capacitance and high input resistance minimize loading
- Excellent common-mode rejection across the frequency spectrum
- Small, low-mass probe head for confined test point access

Compatibility & Integration

The ZD1500 integrates with Teledyne LeCroy WaveSurfer, WaveRunner, WavePro, and WaveMaster series platforms running MAUI firmware 6.4.1.x or later, including WaveSurfer 3000z/4000HD and WaveRunner 9000 models.

Features & description

From manufacturer datasheet

Features

- 1500 MHz warranted / 1700 MHz typical bandwidth

ZD1500 Characteristics / Specifications

PARAMETER	VALUE
Model	ZD1500
Manufacturer	Teledyne LeCroy
Instrument Type	Active differential probe
Bandwidth Warranted	1500 MHz
Bandwidth Typical	1700 MHz
LF Attenuation Accuracy Warranted	2%
Zero Offset Typical	5 mV (within 15 min after autozero)
System Noise Typical	1.75 mVrms
Probe Noise Density Typical	38 nV/rHz
Input Differential Range	+/-8 V (16 Vp-p)
Differential Offset Range	+/-18 V
Offset Gain Accuracy Typical	2%
Common Mode Range	+/-10 V
CMRR Typical	60 dB at 50/60 Hz; 30 dB at 20 MHz; 25 dB at 1500 MHz
DC Input Resistance Common Mode	50 kohm
DC Input Resistance Differential	120 kohm
Differential Input Capacitance Typical	less than 1.0 pF
Interface	ProBus
Related Models	ZD500; ZD1000
Alias	ZD1500; Teledyne LeCroy ZD1500 Notes Specs from Teledyne LeCroy ZD Series datasheet. Confirm ProBus host bandwidth and included tip accessories on the unit.
Related	ZD500 (500 MHz), ZD1000 (1 GHz)
Bandwidth	on compatible LeCroy oscilloscopes without an external probe power supply.

PARAMETER

VALUE

Rise Time

and about 1.75 mVrms system noise. Designed for full system bandwidth on compatible LeCroy oscilloscopes without an external probe power supply.

Attenuation

/ offset

ZD1500 Specifications

PARAMETER	VALUE
Teledyne LeCroy ZD1500 1.5 GHz Active Differential Probe	Overview
Key Features	- 1500 MHz warranted / 1700 MHz typical bandwidth
Technical Specifications	Model: ZD1500

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	ZD1500
Manufacturer	Teledyne LeCroy
Instrument Type	Active differential probe
Bandwidth Warranted: 1500 MHz	
Bandwidth Typical: 1700 MHz	
Risetime 10-90% Typical: 270 ps	
Risetime 20-80% Typical: 200 ps	
Specifications	
PARAMETER	VALUE
LF Attenuation Accuracy Warranted	2%
Zero Offset Typical	5 mV (within 15 min after autozero)
System Noise Typical	1.75 mVrms
Specifications	
PARAMETER	VALUE
Probe Noise Density Typical	38 nV/√Hz
Input Differential Range	+/-8 V (16 Vp-p)
Differential Offset Range	+/-18 V
Offset Gain Accuracy Typical: 2%	
Common Mode Range: +/-10 V	
Maximum Non-destruct Voltage: 30 V	
Specifications	
PARAMETER	VALUE
CMRR Typical	60 dB at 50/60 Hz; 30 dB at 20 MHz; 25 dB at 1500 MHz
DC Input Resistance Common Mode	50 kohm
DC Input Resistance Differential	120 kohm

Specifications

PARAMETER	VALUE
Differential Input Capacitance Typical	less than 1.0 pF
Interface	ProBus
Related Models	ZD500; ZD1000

Alias: ZD1500; Teledyne LeCroy ZD1500

Notes

Specs from Teledyne LeCroy ZD Series datasheet. Confirm ProBus host bandwidth and included tip accessories on the unit.

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

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.