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Data Sheet

August 3, 2026

TELEDYNE

Teledyne LeCroy WaveSurfer 3104Z 1GHz Oscilloscope

Teledyne LeCroy WaveSurfer 3104Z 1GHz Oscilloscope The WaveSurfer 3104z provides a 1 GHz, 4-channel digital oscilloscope in the WaveSurfer 3000z family with MAUI capacitive-touch UI, up to 4 GS/s interleaved sample rate, 10 Mpts/ch standard memory (20 Mpts interleaved), and a 10.1-inch widescreen touch display. General-purpose 1 GHz analog debug; mixed-signal debug with optional 16-channel MSO; protocol decode (I2C, SPI, UART, CAN, LIN, etc.); power analysis with optional packages; embedded and power-electronics bench validation. The WaveSurfer 3104z provides a 1 GHz, 4-channel digital oscilloscope in the WaveSurfer 3000z family with MAUI capacitive-touch UI, up to 4 GS/s interleaved sample rate, 10 Mpts/ch standard memory (20 Mpts interleaved), and a 10.1-inch widescreen touch display. General-purpose 1 GHz analog debug; mixed-signal debug with optional 16-channel MSO; protocol decode (I2C, SPI, UART, CAN, LIN, etc.); power analysis with optional packages; embedded and power-electronics bench validation.

No photo

MODEL

Teledyne 3104Z

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

3104Z

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Bandwidth 1 GHz; 4 analog input channels
- Sample rate 2 GS/s on 4 channels; 4 GS/s interleaved (2 ch)
- Memory 10 Mpts/ch (4 ch); 20 Mpts (2 ch interleaved)
- 10.1-inch capacitive touch widescreen; MAUI interface
- Update rate up to approximately 130,000 waveforms/s
- Vertical resolution 8 bits; up to 11 bits with ERES
- Rise time approximately 430 ps (10–90%, 50 Ω)
- Optional WS3K-MSO 16 digital channels; WaveSource function generator; power analysis
- Connectivity: USB Host/Device, LAN, GPIB, LXI class

3104Z Characteristics / Specifications

PARAMETER	VALUE
Model	WaveSurfer 3104z (3104Z)
Manufacturer	Teledyne LeCroy
Instrument Type	Digital Oscilloscope
Family	WaveSurfer 3000z
Bandwidth	1 GHz
Channels	4
Sample Rate	2 GS/s (4 ch); 4 GS/s (2 ch interleaved)
Memory	10 Mpts/ch; 20 Mpts interleaved
Display	10.1-inch capacitive touch
Vertical Resolution	8 bits (up to 11 with ERES)
Alias	WaveSurfer3104Z, 3104z Standard Operating Conditions Use 50 Ω or 1 MΩ probe settings matching probe and signal. Observe maximum input ratings. Enable ERES or bandwidth limiters as needed for noise versus bandwidth trade-offs.
WaveSurfer 3104z is the 1 GHz top model of the 3000z series	distinct from 3014z–3054z lower-bandwidth siblings. Alias 3104Z.
Connectivity	USB Host/Device, LAN, GPIB, LXI class
Rise Time	approximately 430 ps (10–90%, 50 Ω) - Optional WS3K-MSO 16 digital channels; WaveSource function generator; power analysis - Connectivity: USB Host/Device, LAN, GPIB, LXI class

3104Z Specifications

PARAMETER	VALUE
Teledyne LeCroy WaveSurfer 3104Z 1GHz Oscilloscope	Overview
Key Features	- Bandwidth 1 GHz; 4 analog input channels
Technical Specifications	Model: WaveSurfer 3104z (3104Z)
Operational Notes	WaveSurfer 3104z is the 1 GHz top model of the 3000z series—distinct from 3014z–3054z lower-bandwidth siblings. Alias 3104Z.

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	
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Standard Operating Conditions	
Use 50 Ω or 1 M Ω probe settings matching probe and signal. Observe maximum input ratings. Enable ERES or bandwidth limiters as needed for noise versus bandwidth trade-offs.	
Operational Notes	
WaveSurfer 3104z is the 1 GHz top model of the 3000z series-distinct from 3014z-3054z lower-bandwidth siblings. Alias 3104Z.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

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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.