

World-leading Oscilloscope Performance

20 GHz - 100 GHz



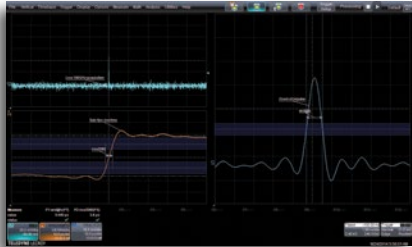
Key Specifications	
Bandwidth	20 GHz - 100 GHz
Resolution	8-bit ADC resolution, up to 11-bit with enhanced resolution
Channels	4 per module, up to 80 channels per system
Standard Memory	32 Mpts per channel (64 Mpts on SDA models)
Maximum Memory	Up to 512 Mpts/Ch (1536 Mpts/ch interleaved)
Sample Rate	80 GS/s per channel (up to 240 GS/s interleaved)
Display	15.3" WXGA Touch Screen
Connectivity	USB Host, LAN, GPIB

The Highest Bandwidth, the Most Channels

- **Highest real-time bandwidth** - The LabMaster 10 Zi-A boasts the world's highest bandwidth and fastest sampling rate at 100 GHz and 240 GS/s. Configurations start from 20 GHz, 80 GS/s.
- **Modular Design** - LabMaster 10 Zi-A was designed from the ground up to be a modular system:
 - Up to 80 channels of 36 GHz
 - Up to 40 channels of 65 GHz
 - Up to 20 channels of 100 GHz
- **Timing precision** – ChannelSync architecture maintains single-instrument timing performance in a flexible, modular system: channel-to-channel jitter is only 130 fs (RMS).
- **Multi-lane eye, jitter and noise analysis** – Teledyne LeCroy SDAIII is the most complete serial data analysis package in the industry, fully leveraging the LabMaster 10 Zi-A's input channel density to enable analysis of up to four differential high-speed data lanes.
- **Optical Modulation Analysis** – LabMaster 10 Zi-A is an integral part of the highest-bandwidth optical modulation analysis system, enabling characterization to 65 Gbaud and detection to 130 Gbaud.

For more information, please contact:

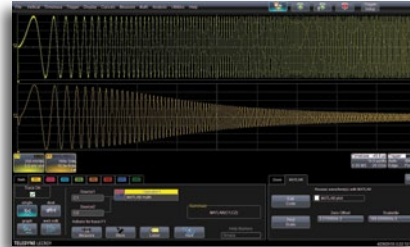
LabMaster 10 Zi-A Oscilloscopes Fact Sheet



Phenomena that occur at the shortest timescales require the fastest digitization. At 240 GS/s, samples are acquired at intervals of 4.17 ps, yielding superior signal reconstruction.



Teledyne LeCroy and Coherent Solutions Ltd have teamed up to bring you the world's highest performance Optical Modulation Analyzer - up to 65 GHz bandwidth.



Use C/C++, MATLAB, Excel, JScript (JAVA), and Visual Basic to create customized math functions, and integrate them directly into the scope's processing stream.



Ordering Information

Model	Bandwidth	Channels per module	Standard Memory per Ch (interleaved)	Sample Rate per Ch (interleaved)
LabMaster 10-20Zi-A	20 GHz	4 x 20 GHz	32 Mpts	80 GS/s
LabMaster 10-25Zi-A	25 GHz	4 x 25 GHz	32 Mpts	80 GS/s
LabMaster 10-30Zi-A	30 GHz	4 x 30 GHz	32 Mpts	80 GS/s
LabMaster 10-36Zi-A	36 GHz	4 x 36 GHz	32 Mpts	80 GS/s
LabMaster 10-50Zi-A	50 GHz	2 x 50 GHz, 4 x 36 GHz	32 Mpts (64 Mpts)	80 GS/s (160 GS/s)
LabMaster 10-59Zi-A	59 GHz	2 x 59 GHz, 4 x 36 GHz	32 Mpts (64 Mpts)	80 GS/s (160 GS/s)
LabMaster 10-65Zi-A	65 GHz	2 x 65 GHz, 4 x 36 GHz	32 Mpts (64 Mpts)	80 GS/s (160 GS/s)
LabMaster 10-100Zi-A	100 GHz	1 x 100 GHz, 4 x 36 GHz	32 Mpts (96 Mpts)	80 GS/s (240 GS/s)

Available Probes (Adapters required in some cases)

High-Bandwidth Differential		High Voltage Differential	
D410-PS	WaveLink 4 GHz 2.5 Vp-p Differential Probe System	ZD200	200 MHz, 3.5 pF, 1 MΩ Active Differential Probe
D420-PS	WaveLink 4 GHz 5 Vp-p Differential Probe System	ZD500	500 MHz Active Differential Probe
D610-PS	WaveLink 6 GHz 2.5 Vp-p Differential Probe System	ZD1000	1 GHz Active Differential Probe
D620-PS	WaveLink 6 GHz 5 Vp-p Differential Probe System	ZD1500	1.5 GHz Active Differential Probe
D830-PS	WaveLink 8 GHz 3.5Vp-p Differential Probe System		
D1030-PS	WaveLink 10 GHz 3.5Vp-p Differential Probe System	Optical	
D1330-PS	WaveLink 13 GHz 3.5Vp-p Differential Probe System	OE695G	Optical-to-Electrical Converter, DC to 9.5 GHz, 785 to 1550 nm
D1305-A-PS	WaveLink 13 GHz, 2.0 Vp-p Differential Probe System		
D1605-A-PS	WaveLink 16 GHz, 2.0 Vp-p Differential Probe System	Single-Ended	
D2005-A-PS	WaveLink 20 GHz, 2.0Vp-p Differential Probe System	ZS4000	4.0 GHz, 0.6 pF, 1 MΩ High Impedance Active Probe
D2505-A-PS	WaveLink 25 GHz, 2.0 Vp-p Differential Probe System	ZS2500	2.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
		ZS1500	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe
		ZS1000	1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe

The Highest Performance

- 20 GHz -100 GHz bandwidth
- 240 GS/s maximum sample rate
- Up to 80 analog channels
- Up to 1536 Mpts memory
- 130 fs channel matching using ChannelSync architecture

The Most Capable Analysis Platform

- Server-class PC with up to 192 GB of system RAM
- Deepest toolkit with the most measurement and math capabilities
- Industry-leading analysis capabilities for NRZ and PAM4 serial data
- 325 MB/s data transfer rate from the LabMaster to separate PC with Teledyne LeCroy Serial Interface Bus (LSIB) option