

The High-Bandwidth Solutions Platform

4 GHz to 30 GHz



Key Specifications

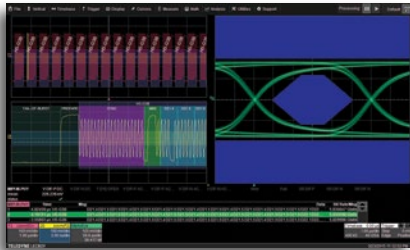
Bandwidth	4 GHz to 30 GHz
User Interface	MAUI
Resolution	8 bit ADC resolution, up to 11 bits with enhanced resolution
Channels	4
Standard Memory	32 Mpts/Ch (64 Mpts/Ch in SDA and DDA models)
Maximum Memory	Up to 512 Mpts/Ch
Sample Rate	Up to 80 GS/s
Display	15.3" WXGA Color Touch Screen
Connectivity	USB Host, LAN, LXI, GPIB

High-Speed Measurements Made Easy

- **High Performance** - Bandwidths from 4 GHz to 30 GHz and sample rates up to 80 GS/s ensure pristine signal fidelity for testing today's high-speed interfaces.
- **Ultimate Probing Flexibility** - Fully integrated 50 Ω and 1 M Ω inputs enable the widest selection of probes with no need for additional input adapters.
- **Unsurpassed Ease-of-use** - The most advanced oscilloscope user interface, coupled with the largest, highest-resolution touchscreen in its class, enables sophisticated analysis with bench-scope useability.
- **Fastest True-hardware Serial Triggering** - SDA 8Zi-B models come with a 6.5 Gb/s serial data trigger as standard, ensuring that even the rarest events can be triggered on. All models can be upgraded to an industry-leading 14.1 Gb/s trigger.
- **Serial Data Analysis** — SDAIII CompleteLinQ, the most complete serial data analysis tool, allows multi-lane eye, jitter and crosstalk analysis.
- **LabNotebook** — Save all results and data and create custom reports with a single button press.

For more information, please contact:

WaveMaster 8 Zi-B Oscilloscopes Fact Sheet



Combine multiple analysis types into a single, correlated display integrating protocol, physical and other views of your signals.



The WaveMaster 8Zi-B has the largest toolkit for characterizing signal quality and debugging physical layer problems.



Teledyne LeCroy's MAUI provides the most tightly integrated toolset of any oscilloscope user interface. Custom functions in environments like MATLAB can also be integrated.



Ordering Information

Model	Bandwidth (2ch)	Bandwidth (4ch)	Memory per Ch (interleaved)	Sample Rate per Ch (interleaved)
WaveMaster 804 Zi-B	4 GHz	4 GHz	32 Mpts	40 GS/s
WaveMaster 806 Zi-B	6 GHz	6 GHz	32 Mpts	40 GS/s
WaveMaster 808 Zi-B	8 GHz	8 GHz	32 Mpts	40 GS/s
WaveMaster 813 Zi-B	13 GHz	13 GHz	32 Mpts	40 GS/s
WaveMaster 816 Zi-B	16 GHz	16 GHz	32 Mpts (64 Mpts)	40 GS/s (80 GS/s)
WaveMaster 820 Zi-B	20 GHz	20 GHz	32 Mpts (64 Mpts)	40 GS/s (80 GS/s)
WaveMaster 825 Zi-B	25 GHz	20 GHz	32 Mpts (64 Mpts)	40 GS/s (80 GS/s)
WaveMaster 830 Zi-B	30 GHz	20 GHz	32 Mpts (64 Mpts)	40 GS/s (80 GS/s)

Available Probes

High-Bandwidth Differential

D410-PS	WaveLink 4 GHz 2.5 Vp-p Differential Probe System
D420-PS	WaveLink 4 GHz 5 Vp-p Differential Probe System
D610-PS	WaveLink 6 GHz 2.5 Vp-p Differential Probe System
D620-PS	WaveLink 6 GHz 5 Vp-p Differential Probe System
D830-PS	WaveLink 8 GHz 3.5Vp-p Differential Probe System
D1030-PS	WaveLink 10 GHz 3.5Vp-p Differential Probe System
D1330-PS	WaveLink 13 GHz 3.5Vp-p Differential Probe System
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
D2005-A-PS	WaveLink 20 GHz, 2.0Vp-p Differential Probe System
D2505-A-PS	WaveLink 25 GHz, 2.0 Vp-p Differential Probe System

Optical

OE695G Optical-to-Electrical Converter, DC to 9.5 GHz, 785 to 1550 nm

Current

CP030	30 A; 50 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP030A	30 A; 50 MHz High Sensitivity Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP031	30 A; 100 MHz Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP031A	30 A; 100 MHz High Sensitivity Current Probe – AC/DC; 30 A _{rms} ; 50 A _{peak} Pulse
CP150	150 A; 10 MHz Current Probe – AC/DC; 150 A _{rms} ; 50 A _{peak} Pulse
CP500	500 A; 2 MHz Current Probe – AC/DC; 500 A _{rms} ; 700 A _{peak} Pulse

Single-Ended

ZS4000	4.0 GHz, 0.6 pF, 1 MΩ High Impedance Active Probe
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

High Voltage Differential

HVD3106	1,500 V, 120 MHz High-Voltage Differential Probe
HVD3106-6M	80 MHz, High Voltage Differential Probe with 6m cable
HVD3102	1,500 V, 25 MHz High-Voltage Differential Probe
ZD200	200 MHz, 3.5 pF, 1 MΩ Active Differential Probe
ZD500	500 MHz Active Differential Probe
ZD1000	1 GHz Active Differential Probe
ZD1500	1.5 GHz Active Differential Probe

High-Voltage

HVP120	400 MHz, 1kV Vrms High-Voltage Passive Probe
PPE1.2KV	10:1/100:1 200/300 MHz 50 MΩ High-Voltage Probe 600V/1.2kV Max. Volt. DC
PPE2KV	100:1 400 MHz 50 MΩ 2 kV High-Voltage Probe
PPE4KV	100:1 400 MHz 50 MΩ 4kV High-Voltage Probe
PPE5KV	1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe
PPE6KV	1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe

High Performance

- 4 GHz - 30 GHz bandwidth
- Up to 80 GS/s sample rate
- Low Jitter Measurement Floor and exceptional timebase stability

Automated Serial Data Test Solutions

- PCI Express (1.0, 2.0, 3.0)
- USB1, USB2, USB 3.0, USB 3.1
- DDR2, LPDDR2, DDR3, LPDDR3, DDR4
- SAS2, SAS3, SATA
- MIPI D-PHY and M-PHY
- 10/100/100 BASE-T, 10GBASE-T, 10GBASE-KR, SFI
- HDMI 1.4, DisplayPort 1.2
- MOST50, MOST150, BroadR-Reach