

力科产品手册



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LabMaster 10 Zi-A
(SDA Models)

WaveMaster 8 Zi-B
(SDA/DDA 8 Zi-B)

带宽	20 GHz to 65 GHz	4 GHz to 30 GHz
分辨率	8-bit resolution, 11-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution
上升时间	6.5 ps to 19.3 ps	15.5 ps to 95 ps
通道 (模拟+数字)	Up to 80, 80 + 18	4, 4 + 18
显示	15.3" WXGA Touch Screen	15.3" WXGA Touch Screen
标配存储深度	32 Mpts/Ch (64 Mpts/Ch)	32 Mpts/Ch (64 Mpts/Ch)
最大存储深度 [†]	Up to 1024 Mpts	Up to 512 Mpts
采样率	Up to 160 GS/s	Up to 80 GS/s
MSO特性 [†] (数字通道)	3 GHz, 12.5 GS/s, 18 Ch	3 GHz, 12.5 GS/s, 18 Ch
触发类型	Edge, Width, Glitch, Pattern, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Cascade (Sequence) Trigger, High-speed Serial Trigger [†]	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Cascade (Sequence) Trigger, High-speed Serial Trigger [†]
串行数据 [†]	TD: 80-bit NRZ, 8b/10b, 64b/66b D: 64b66b, 8b/10b, ARINC 429, Audio, CAN, CAN FD, CAN FD Symbolic, DigRF 3G, DigRF v4, ENET, ENET 10G, Fibre Channel, I ² C, LIN, Manchester, MDIO, MIL-STD-1553, NRZ, PCIe, RS-232, SAS, SATA, SENT, SpaceWire, SPI, UART, UniPro, USB 1.0/1.1/2.0, USB 3.2 (Gen1, Gen2, Gen2x2) DP: D-PHY, Fibre Channel, FlexRay, M-PHY DG: Audio	TD: 80-bit NRZ, 8b/10b, 64b/66b, RS-232, UART TD or TDME: 100Base-T1, CAN, CAN FD, CAN FD Symbolic, I ² C, LIN, MIL-STD-1553, SPI, TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, ENET 10G, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SAS, SATA, SENT, SpaceWire, SPMI, UniPro, USB 2.0-HSIC, USB 3.2 (Gen1, Gen2, Gen2x2), 64b / 66b, 8b/10b DP: D-PHY, M-PHY DME: ARINC 429, USB 1.0/1.1/2.0
串行数据分析	Eye Jitter and Noise Analysis (SDAIII-CompleteLINQ), Virtual Probe, Eye Doctor II, PAM4 Signal Analysis, Serial Data Mask, Cable De-Embedding	
串行数据 一致性测试	DDR 3/4/5, LPDDR 3/4/5, DisplayPort 1.4, eDP, Automotive Ethernet 100Base-T1, 1000Base-T1 Ethernet 10GBase-T, 10GBase-KR, HDMI 2.1/2.0/1.4b, MIPI M-PHY, PAM4-56G, PCI Express 1.0/2.0/3.0/4.0/5.0, SAS 2/3, SATA, SFI, USB 3.2 (Gen1, Gen2, Gen2x2), USB4/TBT4	DDR 2/3/4/5, LPDDR 2/3/4/5, DisplayPort 1.4, eDP, Automotive Ethernet 10Base-T1S, 100Base-T1, 1000Base-T1, Ethernet 10/100/1000Base-T, Ethernet 10GBase-T, 10GBase-KR, HDMI 2.1/2.0/1.4b, MIPI D-PHY, MIPI M-PHY, MOST 50/150, PAM4- 56G, PCI Express 1.0/2.0/3.0, SAS 2/3, SATA, SFI, USB 1.1/2.0, USB 3.2 (Gen1, Gen2, Gen2x2), USB4/TBT4
应用软件选项	Spectrum Analyzer (Single, Dual+Reference), Clock and Clock-Data Jitter Analysis, Automotive Ethernet Debug, CrossSync PHY, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Advanced Customization (Standard with LabMaster 10 Zi-A), EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Advanced Vector Signal Analysis, Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Coherent Optical Analysis, Electrical Telecom Pulse Mask Test	
外设接口	USB Host for Storage, LAN for PC, LXI for PC, GPIB for PC [†]	
函数	+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Segment, Sparse, Square, Square Root, Track, Trend, Zoom	
尺寸 (HWD)	MCM-Zi-A: 277 x 462 x 396 mm (10.9" x 18.2" x 15.6") LabMaster 10-xxZi Acq. Module: 202 x 462 x 660 mm (8.0" x 18.2" x 26")	355 x 467 x 406 mm (14" x 18.4" x 16")
重量	MCM-Zi-A: 47 lbs. (21.4 kg) LabMaster 10-xxZi-A Acq. Module - 58 lbs. (24 kg)	58 lbs. (26.4 kg)
保修	3 yr	3 yr



WavePro HD



WaveRunner 8000HD/MDA 8000HD



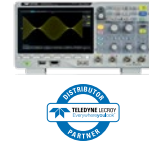
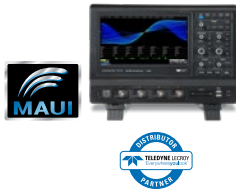
WaveRunner 9000/9000-MS

带宽	2.5 GHz to 8 GHz	350 MHz to 2 GHz	500 MHz to 4 GHz
分辨率	12-bit resolution, 15-bit with enhanced resolution	12-bit resolution, 15-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution
上升时间	57.5 ps to 166 ps	1 ns to 235 ps	700 ps to 100 ps
通道 (模拟+数字)	4, 4 + 16	8, 8 + 16	4, 4 + 16
显示	15.6" Widescreen Capacitive Touch Screen	15.6" Widescreen Capacitive Touch Screen	15.4" WXGA Multi-Touch Screen
标配存储深度	50 Mpts/Ch 100 Mpts Interleaved	50 Mpts/Ch 100 / 200 Mpts Interleaved	16 Mpts/Ch; M Models: 64 Mpts/Ch 32 Mpts Interleaved; M Models: 128 Mpts
最大存储深度†	Up to 5 Gpts	Up to 5 Gpts	Up to 128 Mpts
采样率	Up to 20 GS/s	Up to 10 GS/s	Up to 20 GS/s; M Models: Up to 40 GS/s
MSO特性† (数字通道)	250 MHz, 1.25 GS/s 16 Ch	500 MHz, 2.5 GS/s 16 Ch	250 MHz, 1.25 GS/s, 16 Ch
触发类型	Edge, Width, Glitch, Pattern, Runt, Slew Rate, Interval (Period), Dropout, Qualified,	Edge, Width, Glitch, Pattern, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Timeout, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window, Cascade
串行数据† 触发 (T) 解码 (D) 测量/图形 (M) 眼图 (E) 仅图形 (G) 物理层 (P)	TD or TDME: 100Base-T1, CAN, CAN FD, CAN FD Symbolic, SPMI, I ³ C, I ² C, LIN, MIL- STD-1553, RS-232, SENT, PMBus, SMBus, SPI, UART, USB 1.0/1.1/2.0, USB-PD TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SATA, SAS, SpaceWire, UniPro, USB 2.0-HSIC, USB 3.2 (Gen1), 8b/10b DP: D-PHY, M-PHY DME: ARINC 429	TD or TDME: 100Base-T1, CAN, CAN FD, CAN FD Symbolic, SPMI, I ³ C, I ² C, LIN, MIL-STD-1553, RS-232, SENT, PMBus, SMBus, SPI, UART, USB 1.0/1.1/2.0, USB-PD TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SpaceWire, USB 2.0-HSIC, 8b/10b DME: ARINC 429	TD: SATA, 8b/10b TD or TDME: 100Base-T1, CAN, CAN FD, CAN FD Symbolic, SPMI, I ³ C, I ² C, LIN, MIL-STD-1553, RS-232, SENT, PMBus, SMBus, SPI, UART, USB 1.0/1.1/2.0, USB-PD TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, ENET, Fibre Channel, Manchester, MDIO, NRZ, PCIe, SAS, SpaceWire, UniPro, USB 2.0-HSIC DP: D-PHY, M-PHY DME: ARINC 429
串行数据分析	Eye Jitter and Noise Analysis (SDAIII- CompleteLINQ), Virtual Probe, Eye Doctor II, Serial Data Mask, Cable De-Embedding	Eye and Jitter Analysis (SDAIII), Virtual Probe, Eye Doctor II, Serial Data Mask, Cable De-Embedding	Eye Jitter, Virtual Probe, Eye Doctor II, Serial Data Mask, Cable De-Embedding
串行数据 一致性测试	DDR 2/3, LPDDR 2/3, Automotive Ethernet 10Base-T1S, 100Base-T1, 1000Base-T1, Ethernet 10/100/1000Base-T, MIPI D-PHY, MOST 50/150, PCI Express 1.0, USB 1.1/2.0	Automotive Ethernet 10Base-T1S, 100Base-T1, 1000Base-T1, Ethernet 10/100/1000Base-T, MOST 50/150, USB 1.1/2.0	DDR 2/3, LPDDR 2/3, Automotive Ethernet 10Base-T1S, 100Base-T1, 1000Base-T1, Ethernet 10/100/1000Base-T, MIPI D-PHY, MOST 50/150, USB 1.1/2.0
应用软件选项	Spectrum Analyzer (Single, Dual+Reference), Clock and Clock-Data Jitter Analysis, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Three-phase Electrical Power, Harmonic, and Vector Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Single, Dual+Reference), Clock and Clock-Data Jitter Analysis, Automotive Ethernet Debug, Switch-mode Power Supply and Device Analysis, Three- phase Electrical Power, Harmonic, and Vector Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Vector Signal Analysis, Three-phase Electrical and Mechanical Power Analysis (included with MDA Models)	Spectrum Analyzer (Single, Dual+Reference), Clock and Clock-Data Jitter Analysis, DDR Debug Toolkit, Switch-mode Power Supply and Device Analysis, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Protocol Analyzer Synch (ProtoSync), Vector Signal Analysis, Advanced Optical Recording, Disk Drive Analysis, Disk Drive Measurements, Electrical Telecom Pulse Mask Test
外设接口	USB Host for Storage, USB Device for PC, LAN for PC, GPIB for PC†		
函数	+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Segment, Sparse, Square, Square Root, Track, Trend, Zoom		+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Segment, Sparse, Square, Square Root, Track, Trend, Zoom
尺寸 (HWD)	345 x 445 x 196 mm (13.6" H x 17.5" W x 7.7" D)	345 x 445 x 196 mm (13.6" H x 17.5" W x 7.7" D)	358 x 445 x 242 mm (14.1" x 17.5" x 9.5")
重量	24.4 lbs (11.1kg)	24.4 lbs (11.1kg)	25.8 lbs. (11.7 kg)
保修	3 yr	3 yr	3 yr

† 选项



	HDO6000B/ HDO6000B-MS	HDO4000A/ HDO4000A-MS	WaveSurfer 4000HD
带宽	350 MHz to 1 GHz	200 MHz to 1 GHz	200 MHz to 1 GHz
分辨率	12-bit resolution, 15-bit with enhanced resolution	12-bit resolution, 15-bit with enhanced resolution	12-bit resolution, 15-bit with enhanced resolution
上升时间	1 ns to 450 ps	1.75 ns to 450 ps	1.75 ns to 450 ps
通道 (模拟+数字)	4, 4 + 16, 4 + 16 + 24	4, 4 + 16, 4 + 16 + 24	4, 4 + 16, 4 + 16 + 24
显示	15.6" Widescreen Capacitive Touch Screen	12.1" WXGA Multi-Touch Screen	12.1" Widescreen Capacitive Touch Screen
标配存储深度	50 Mpts/Ch	12.5 Mpts/Ch 25 Mpts Interleaved	12.5 Mpts/Ch 25 Mpts Interleaved
最大存储深度†	Up to 250 Mpts	Up to 50 Mpts	Up to 25 Mpts
采样率	Up to 10 GS/s	Up to 10 GS/s	Up to 5 GS/s
MSO特性† (数字通道)	250 MHz, 1.25 GS/s 16 Ch	250 MHz, 1.25 GS/s 16 Ch	125 MHz, 500 MS/s 16 Ch
触发类型	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Timeout, Slew Rate, Interval (Period), Dropout, Qualified, Measurement, Window, Cascade	Edge, Width, Glitch, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified, Window	Edge, Width, Pattern, Video, HDTV, Runt, Slew Rate, Interval (Period), Dropout, Qualified
串行数据† 触发 (T) 解码 (D) 测量/图形 (M) 眼图 (E) 仅图形 (G) 物理层 (P)	TD or TDME: 100Base-T1, CAN, CAN FD, CAN FD Symbolic, SPMI, I ³ C, I ² C, LIN, MIL-STD-1553, RS-232, SENT, PMBus, SMBus, SPI, UART, USB-PD TD or TDxx: Audio (TDG), FlexRay (TDMP) D: DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SpaceWire, USB 1.0/1.1/2.0, USB-PD, USB 2.0-HSIC DME: ARINC 429	TD: 100Base-T1, Audio, CAN, CAN FD, FlexRay, SPMI, I ³ C, I ² C, LIN, MIL-STD-1553, RS-232, SENT, PMBus, SMBus, SPI, UART, USB-PD D: ARINC 429, DigRF 3G, DigRF v4, D-PHY, ENET, Manchester, MDIO, NRZ, SpaceWire, USB 1.0/1.1/2.0, USB-PD, USB 2.0-HSIC	TD: Audio, CAN, CAN FD, LIN, FlexRay, I ² C, SPI, UART, RS232
串行数据分析	Serial Data Mask	—	—
串行数据 一致性测试	Automotive Ethernet 10Base-T1S, 100Base-T1, 1000Base-T1, Ethernet 10/100/1000Base-T, MOST 50/150	—	—
应用软件选项	Spectrum Analyzer (Single, Dual+Reference), Clock and Clock-Data Jitter Analysis, Switch- mode Power Supply and Device Analysis, Three-phase Electrical Power, Harmonic, and Vector Analysis, Digital Power Management, Advanced Customization, EMC Pulse Parameters, Digital Filter Package, Vector Signal Analysis, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Single), Switch-mode Power Supply and Device Analysis, Electrical Telecom Pulse Mask Test	Spectrum Analyzer (Single), Switch-mode Power Supply and Device Analysis, Arbitrary Waveform Generator, Digital Voltmeter (Included standard with registration)
外设接口		USB Host for Storage, USB Device for PC LAN for PC, GPIB for PC†	
函数	+, -, x, /, FFT, Absolute Value, Average, Copy, Correlation, Derivative, Deskew, Envelope, Enhanced Resolution, Exponent, Floor, Histogram, Integral, Invert, Log, Phistogram, Ptrace Mean, Ptrace Range, Ptrace Sigma, Reciprocal, Rescale, Roof, Segment, Sparse, Square, Square Root, Track, Trend, Zoom	+, -, x, /, FFT, Absolute Value, Average, Derivative, Deskew, Envelope, Enhanced Resolution, Floor, Integral, Invert, Reciprocal, Rescale, Roof, Square, Square Root, Trend, Zoom	+, -, x, /, FFT, Absolute Value, Average, Derivative, Deskew, Envelope, Enhanced Resolution, Floor, Integral, Invert, Reciprocal, Rescale, Roof, Square, Square Root, Trend, Zoom
尺寸 (HWD)	352 mm x 445 mm x 170 mm (13.8" x 17.5" x 6.7")	291.7 x 399.4 x 131.31 mm (11.48" x 15.72" x 5.17")	273 x 380 x 160 mm (10.7" x 14.9" x 6.3")
重量	21 lbs (9.8 kg)	12.6 lbs (5.71 kg)	11.7 lbs (5.3 kg)
保修	3 yr	3 yr	3 yr



	WaveSurfer 3000z	T3DSO2000A	T3DSO1000 / T3DSO1000A
带宽	100 MHz to 1 GHz	100 MHz to 500 MHz	100 MHz to 350 MHz
分辨率	8-bit resolution, 11-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution	8-bit resolution, 11-bit with enhanced resolution
上升时间	3.5 ns to 430 ps	3.5 ns to 800 ps	3.5 ns to 1 ns
通道 (模拟+数字)	4, 4+16	2 or 4, 2 or 4 + 16	2 or 4, 2 or 4 + 16
显示	10.1" Capacitive Touch Screen	10.1" Capacitive Touch Screen 1024 x 600	7" 800 x 480
标配存储深度	10 Mpts/Ch, 20 Mpts Interleaved	100 Mpts/Ch, 200 Mpts interleaved	T3DSO1000: 7 Mpts/Ch, 14 Mpts interleaved, T3DSO1000A: 14 Mpts/Ch, 28 Mpts interleaved
最大存储深度 [†]	Up to 20 Mpts	Up to 200 Mpts	Up to 28 Mpts
采样率	Up to 4 GS/s 100 MHz models: Up to 2 GS/s	Up to 2 GS/s	T3DSO1000: Up to 1 GS/s T3DSO1000A: Up to 2 GS/s
MSO特性 [†] (数字通道)	125 MHz, 500 MS/s	500 MS/s, 3.3 ns min detectable pulse width	250 MHz, 1 GS/s
触发类型	Edge, Width, Pattern, TV, Runt, Slew Rate, Interval (Period), Dropout, Qualified	Edge, Pulse, Pattern, Video, Runt, Slope, Interval, Dropout, Window / Zone	Edge, Pulse, Pattern, Video, Runt, Slope, Interval, Dropout, Window
串行数据 [†] 触发 (T) 解码 (D) 测量/图形 (M) 眼图 (E) 仅图形 (G) 物理层 (P)	TD: Audio, CAN, CAN FD, FlexRay, I ² C, LIN, RS-232, SPI, UART	TD: I ² C, SPI, UART- RS232, CAN, LIN D: CAN FD, FlexRay, I ² S, MILSTD-1553B	TD: I ² C, SPI, UART-RS232, CAN, LIN
串行数据分析	—	—	—
串行数据 一致性测试	—	—	—
应用软件选项	Switch-mode Power Supply and Device Analysis, Function Generator, Digital Voltmeter (Included standard with registration)	Arbitrary Waveform Generator, Switchmode Power Supply and Device Analysis, Bode Plot, 10-bit mode, Mask Test	Arbitrary Waveform Generator, WiFi, Bode Plot
外设接口	USB Host, USB Device, LAN, GPIB, and LXI Compatible	USB Host, USB Device, LAN	USB Host, USB Device, LAN
函数	+, -, x, /, FFT, Absolute Value, Average, Derivative, Envelope, Floor, Integral, Invert, Reciprocal, Rescale, Roof, SinX/x, Square, Square Root, Trend, Zoom	+, -, x, /, FFT, Derivative, Integral, Square Root / Formula Editor	+, -, x, /, FFT, Derivative, Integral, Square Root
尺寸 (HWD)	270 x 380 x 125 mm (10.63" x 14.96" x 4.92")	224 x 352 x 111 mm (8.81" x 13.86" x 4.37")	150 x 312 x 133 mm (5.91" x 12.28" x 5.94")
重量	10.6 lbs (4.81 kg)	7.92 lbs. (3.6 kg)/ 8.6 lbs. (3.9 kg)	5.72 lbs. (2.6 kg)
保修	3 yr	3 yr	3 yr

[†] 选项

MDA 8000HD 电机驱动分析仪



三相电机功率分析

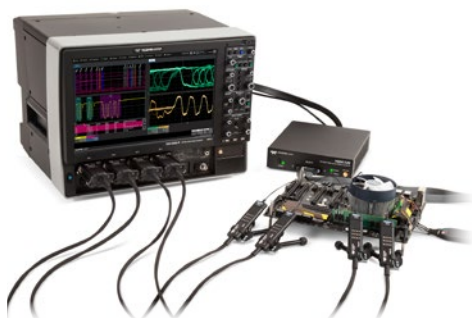
电机驱动工程师需要了解驱动系统运行的每个部分，需要查看控制、传感器、功率器件和功率的波形，需要了解动态事件，并且需要灵活地调试任何异常，电机驱动分析仪可以完成所有工作。

主要特征:

- 高达2GHz, 10GS/s, 5Gpts和12-bit分辨率
- 从启动到过载的动态功率分析
- 每周期时间相关功率波形
- 全面的电机接口 (转矩、速度、角度和功率)
- 独特的Zoom+Gate模式
- 支持两瓦特法和三瓦特法
- 谐波计算、显示和过滤 (选项)
- 矢量显示 (选项)
- 利用HVD系列差分探头支持高达6000Vrms
- 简便连接多种不同的电流测量设备

teledynelecroy.com/motor-drive-analyzer | teledynelecroy.com/static-dynamic-complete

HDA125 高速数字分析仪



最灵活的混合信号测试方案

HDA125将力科示波器转换为性能最高、最灵活的混合信号解决方案，用于高速数字调试和验证，凭借具有12.5 GS / s数字采样率的18个输入通道，以及革命性的QuickLink探测解决方案，可实现从数字到高带宽模拟采集的无缝转换，使DDR4和DDR5等接口的验证从未如此简单和全面。

主要特征:

- 12.5GS/s采样率，具有80ps的时间精度
- 3 GHz前端，用于捕获高达6 Gb/s的数字信号
- 为力科高带宽示波器接添加高速混合信号功能
- LBUS连接实现精确的定时同步
- USB 3.1高速传输
- 独有的QuickLink探头系统
- 带有9英寸引线的差分焊接前端简化了对困难测试点的测试
- 超低负载，性能卓越
- 8 GHz带宽前端兼容HDA数字引线和力科 WaveLink DH差分探头，具有无与伦比的采集灵活性

teledynelecroy.com/logicanalyzers

WavePulser 40iX 高速互联分析仪



阻抗曲线 (TDR)、S参数、去嵌和眼图

WavePulser 40iX是高速硬件设计人员和测试工程师的理想单一测量工具，单次采集可同时得到S参数和阻抗曲线，与频域和时域去嵌相结合，提供对高速互连无与伦比的表征洞察力。

主要特征:

- DC到40GHz的S参数，单端和混合模式
- 阻抗曲线分辨率<1mm，差分模式和共模模式
- 内置OSLT自动校准
- USB连接，小巧轻便
- 灵活显示测量值
- 去嵌夹具、连接器和线缆的影响
- 仿真带有CTLE、DFE和FFE均衡的眼图
- 高级抖动分析

teledynelecroy.com/wavepulser

Teledyne Test Tools

Teledyne Test Tools是一系列全面的测试设备解决方案,可以补充力科的示波器和协议分析仪,这些工具为测试工程师、开发人员和教学机构提供一站式服务,旨在高效、可靠且在预算范围内满足持续的测试、教育和电子验证需求。

Teledyne Test Tools产品组合是与业内领先的OEM合作推出的,旨在支持移动、汽车、通信、国防和制造等众多行业的新产品设计需求。



T3SP 时域反射计

Teledyne Test Tools T3SP10D (10 GHz) 和 T3SP15D (15 GHz) 利用真正的差分信号激励DUT, TDR提供 50 ps (T3SP10D) 和 35ps (T3SP15D) 快速上升时间, 分别用于 4.2mm 和 3mm 的故障分辨率 (FR4), 支持测试最长 40 米的 DUT, TDR 重复率高达 10 MHz, 并使用与矢量网络分析仪相同的 OSL 校准标准。由于外形小巧、重量轻、可选内部电池供电, 仪器可以在测试实验室或现场等任何地方使用, 提供非常高的性价比。



T3AWG2K 系列 - 16 位双通道任意波形发生器

T3AWG2K 系列包括两款经济型双通道任意波形发生器, 16 位垂直分辨率、6 Vpp 输出电压 (50Ω 至 50Ω)、128 Mpts/ch 存储器、600 MS/s 的最大采样率, 最大输出正弦波频率为 150 MHz。T3AWG2152-D 主机为模拟输出增加了 8 个同步数字通道, 非常适合调试和验证数字设计。



T3AWG3K 系列 2/4/8 通道任意波形发生器

T3AWG3K 系列包含 6 款高分辨率高性能任意波形发生器 (HDAWG), 具有 2、4 和 8 个通道, 16 位垂直分辨率, 12 Vpp 最大输出电压 (50Ω 到 50Ω), 128 Mpts / ch 存储深度 (可选 1 Gpts/ch), 最大采样率为 1.2 GS/s, 最大正弦波频率分别为 250 MHz 和 350 MHz, 基线 HW 电压偏移提供无与伦比的能力, 可产生 ±24 V (48V) 输出电压窗口 (50Ω 到高阻)。



T3AFG 函数/任意波形发生器

新的 T3AFG 系列函数/任意波形发生器使用先进的数字频率合成 (DDS) 技术来产生高质量的标准函数和任意波形信号, 还提供广泛的模拟和数字调制功能。T3AFG 系列任意波形发生器具有高达 500 MHz 带宽, 2.4 GSa / s 采样率, 16 位垂直分辨率和 20 Mpts 存储深度。提供常见的模拟和数字调制、扫描和 Burst 以支持复杂的信号生成。T3AFG 系列还提供真正的双通道, 具有内部波形组合、灵活的相位/通道控制以及通道之间的复制/耦合/跟踪。这些特性使 Teledyne Test Tools 任意波形发生器能够提供各种高保真度和低抖动信号, 满足各种应用的需求。T3AFG200、350 和 500 型号还具有 IQ 调制的附加功能, 以支持复杂的应用。



T3DMM 系列数字万用表

T3DMM 系列是双显示数字台式万用表, 可提供丰富而强大的功能。产品非常易于使用, 可通过前面板操作, 也可以通过 USB LAN 基于计算机进行控制。产品均配有 4.3 TFT LCD 彩色屏幕, 分辨率为 480 * 272, 易于查看。T3DMM 系列还具有数字数据显示、直方图、趋势图、条形图和统计信息功能, 此外还具有包括测量统计信息在内的算术功能。



T3SA 系列频谱分析仪

T3SA3000 系列频谱分析仪提供 9 KHz 到 2.1 / 3.2 GHz 的频率范围, 以及许多令人印象深刻的功能, 这些频谱分析仪重量轻, 外形小巧, 用户界面友好, 可进行功能强大且可靠的自动测量, 可在大型易于阅读的触摸屏上显示测试结果, T3SA3000 系列的典型用途是研发, 培训, 生产, 维护和预一致性测试。



T3EL 系列电子负载

T3EL 系列是单通道 200 和 300 瓦系列电子负载, 非常适合在工作台或自动化环境中进行研发、产品验证和 Q&A, 适用于从 <10mA 开始的中低功率应用, 例如电子元件、电池、便携式充电器和电源产品。电子负载用于为电源的输出提供负载, 通常具有动态负载能力, 并且是完全可编程的。电子负载帮助设计人员测试电子电源产品并确保质量、可靠性和性能。

示波器探头

差分探头

(200 MHz – 1.5 GHz)



宽动态范围、低负载和优异的噪声性能，特别是AP033提供10倍增益和高共模抑制比。

差分探头

(4 – 6 GHz)



具有5 Vp-p输入动态范围和 ± 3 V 偏置能力，同时具有低噪声和低负载的特性，多种可选的前端，焊接前端、手持点测前端、QuickLink、Quick Connect、方孔前端和高温前端。

差分探头

(8 – 30 GHz)



用于串行数据、DDR 或其他高速信号测量，标准焊接前端和高灵敏度焊接前端、高温前端和用于混合信号测量的 QuickLink 前端。

60 V 共模差分探头



用于低压 GaN 功率转换测量的理想探头，具有高精度、高CMRR和低噪声的特性，带宽高达1 GHz。

高压差分探头



1 kV、2 kV 和 6 kV 差分探头型号，最宽的差分电压范围，出色的 CMRR，低噪声，具有1%的增益精度。

高压光隔离探头



测量浮动在高压总线上的小信号，具有最高的CMRR和很低的负载，提供光隔离。

高压无源探头



1 kV 至 6 kV 输入电压范围，广泛的应用于以地为参考的高压测量。

有源单端探头



带宽1GHz 至 4 GHz，高信号保真度和低电路负载 (< 1 pF 前端电容)， ± 8 V 输入动态范围和 ± 12 V 偏置范围。

有源电源完整性探头



4 GHz带宽、 ± 30 V 偏置和 ± 800 mV 动态范围，高直流输入阻抗，低噪声和衰减比，适用于电源轨探测。

电流探头



用于交流、直流和脉冲电流测量，利用霍尔效应和变压器技术，测量范围可达500A，带宽高达100 MHz。

罗氏线圈探头



宽频率范围和小型感应线圈可实现最大的灵活性，测量范围从300A到6000 A，带宽范围从0.1 Hz 到 30 MHz。

光电转换探头



带宽高达9.5 GHz 或 36 GHz 的直流耦合检测器，带有用于理想响应补偿的参考接收机。

传输线探头



用于50 Ω 输入的高带宽无源探头，DC 至 7.5 GHz，输入电容为0.25 pF，可选10倍或20倍衰减。

探头和电流传感器适配器



在不同的力科示波器输入类型之间进行转换，为第三方探头提供简单的接口。

无源探头



10 倍衰减，输入阻抗10 M Ω ，非常适合低频信号。

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