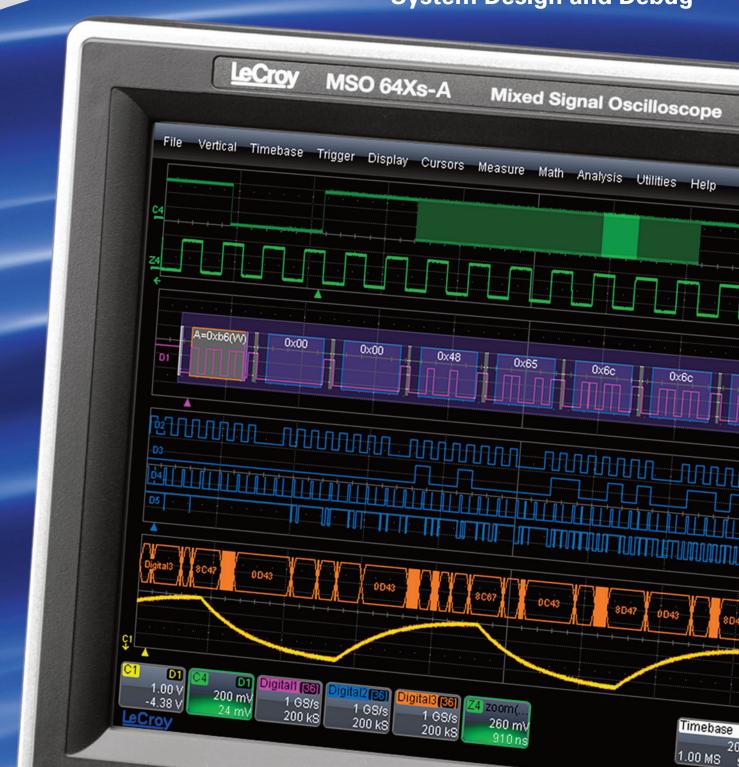
LeCroy

MSO Xs-A Mixed Signal Oscilloscopes

400 MHz - 1 GHz

Engineered for Embedded System Design and Debug



THE RIGHT TOOLS FOR EMBEDDED SYSTEM

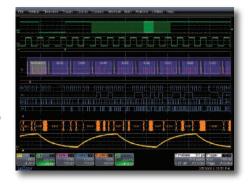
Key Features

- 400 MHz, 600 MHz and
 1 GHz bandwidths
- 4 analog and 18 digital channels
- 2.5 GS/s sample rates per channel, 5 GS/s with MSO 104Xs-A
- 10 Mpts/Ch memory on all channels, all the time
- Fast Processing of long memory and math
- Responsive User Interface
- WaveStream[™] Fast Viewing Mode
- WaveScan[™] Advanced Search and Find
- Excellent triggering including HDTV Trigger
- 10.4" touch screen display
- LXI Compliant
- SMART Triggers[™] capabilities for combining parallel and serial triggering

Successful design and debug of an embedded system requires monitoring a wide range of analog, digital and serial data signals. The MSO Xs-A with its long memory, fast processing, advanced measurements and touch screen is the right tool to view these signals and ensure proper bus traffic and timing between events.

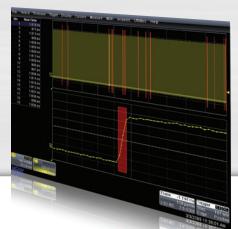
Its small form factor pack a powerful processor that can handle the long 10 Mpts of memory on each of the 4 analog and 18 digital channels faster than any competing products and without any compromise of memory length or sample rate. The touch screen interface is the ultimate in ease of use and with features like WaveStream[™] fast viewing mode and WaveScan[™] Search

and Find you can be confident that you will be able to quickly debug and solve every problem in your embedded system. Beyond the advanced measurement and triggering the MSO Xs-A offers a wide range of available serial data trigger and decode tools for I²C, SPI, UART, Audiobus (I²S, LJ, RJ, TDM), MIL-STD-1553, CAN and LIN. With analog bandwidths from 400 MHz to 1 GHz and max digital input frequencies up to 250 MHz the MSO Xs-A is the ideal mixed signal oscilloscope for everyday design and debug.



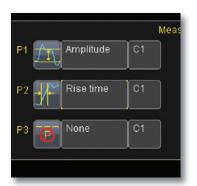
Speed and Responsiveness

The MSO Xs-A was designed to shorten debug time through faster hardware and more sophisticated software. The hardware allows for fast processing of long memory even when looking at all 22 inputs with math, measurements and serial decoders. The software is designed to respond immediately to the user's input even while processing data eliminating any lag or delay.



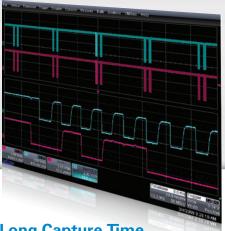
WaveScan Advanced Search

WaveScan allows searching in a single acquisition using more than 20 different modes. Or, set up a Scan condition and scan for an event over hours or days, and perform some action when it is found. Search for events on any analog or digital channel or search for a pattern across multiple digital channels.



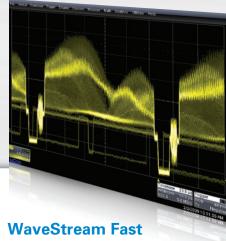
Touch Screen Simplicity

Keep your testing efficient with a thoughtfully designed user interface that provides the busy engineer with a GUI that is smooth, transparent, and easy to use. Use the touch screen to quickly access all triggers, math functions and measurement parameters or to "draw a box" around the area of interest and zoom all channels to the desired area.



Long Capture Time

With 10 Mpts/Ch of fast acquisition memory standard the MSO Xs-A provides long capture time at full sample rate, and allows for very long captures at lower sample rates letting you capture long stretches of serial bus traffic. The MSO Xs-A long memory is also thoughtfully designed to respond quickly, even when measurements, math, or serial decoders are being used.



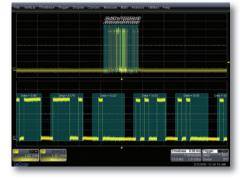
Viewing Mode

WaveStream provides a vibrant, intensity graded (256 levels) display with a fast update to closely simulate the look and feel of an analog oscilloscope. Turn WaveStream ON or OFF, and adjust intensity, using the front panel knob. Use it only when you want to.



Advanced Mixed Signal Triggering

Powerful triggering allows for analog and digital cross-pattern triggering of up to 4 analog and 18 digital channels as well as Qualified AB event triggering to arm a trigger on a certain event and trigger on a parallel or serial pattern that follows.



Serial Data Trigger and Decode

Quickly and easily locate and isolate specific data on I2C, SPI, UART, Audiobus (I2S, LJ, RJ, TDM), MIL-STD-1553, CAN or LIN busses with the optional trigger and decode capabilities. Data is sown with a color-coded overlay directly on top of the physical layer waveform.

THE INTUITIVE, POWERFUL, FLEXIBLE MSO

LeCroy

MSO 64Xs-A

sonnino-rimmin-minomi

Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities

60s) | 60s) | 60s)

Mixed Signal Oscillose

The MSO Xs-A mixed signal oscilloscope makes everyday embedded system testing simpler and easier. The intuitive user interface and streamlined front panel make it easy to turn on and start making measurements. The interface is designed so that all triggering, decoding, measurements and functions are just one touch away

1. Digital Channel Capture

Capture 18 digital lines at 1 GS/s with 10 Mpts memory on each channel

2. Digital Waveform Views

View all lines individually or group them and view as a parallel bus

3. Analog Signal Capture

Capture and view analog channels width bandwidths up to 1 GHz, sample rate up to 5 GS/s and 10 Mpts on each channel

4. Serial Data Decode

View decoded bus information from I²C, SPI, UART, Audiobus (I²S, LJ, RJ, TDM), MIL-STD-1553, CAN and LIN on analog or digital channels with serial data trigger and decode options

5. Local Language User Interface

Select from 10 languages. Add a front panel overlay with your local language

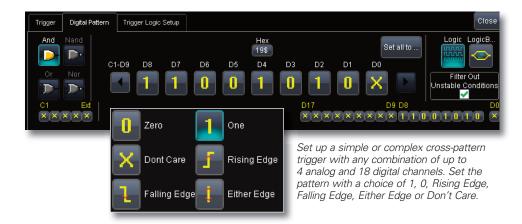


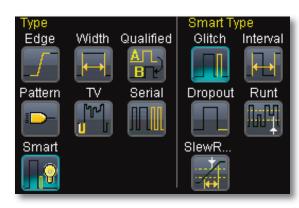


THE COMPLETE MIXED SIGNAL TOOLSET

Analog, Digital and Cross-pattern Triggering

The MSO Xs-A has an extensive set of triggering capabilities aimed at capturing a wide range of analog and digital signals. These triggers can be as simple as an edge trigger on an analog or digital channel or as complicated as a cross-pattern trigger which incorporates up to 4 analog and 18 digital channels. Powerful Qualified AB event triggering allows the trigger to be armed on one event and triggered on another.





The advanced triggering of the MSO Xs-A goes well beyond the basic edge trigger and digital pattern trigger that many MSOs offer. Advanced triggers like runt and dropout and slew rate help find abnormal signals. The Qualified AB trigger can be used to connect multiple trigger events together.

Easy-to-use Measurement Tools

Cursor and measurement parameters are important for measuring and understanding both analog and digital waveforms. The MSO Xs-A cursors will read out hexadecimal bus values and analog channel voltages simultaneously. Automated measurement parameters will make measurements on both analog and digital channels with statistics to help you understand how they change over time.



Cursor measurements are displayed directly in the channel and group descriptor boxes which are always visible on screen.

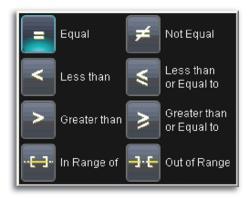


Use up to 6 measurements simultaneously and make measurements on analog, digital or a combination of both. Measurements are quickly set up using the touch screen menus.

SERIAL DATA TRIGGER AND DECODE

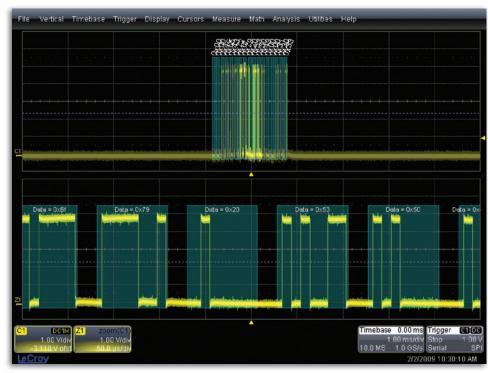
Complete I²C, SPI, UART, RS-232, Audiobus (I²S, LJ, RJ, TDM), MIL-STD-1553, CAN and LIN Serial Triggering

Quickly and easily isolate specific serial data events on your embedded controller for better understanding and faster debug. Set up trigger conditions in binary and hexadecimal formats. Use the digital channels to capture serial data busses keeping the analog oscilloscope channels open for other uses. Trigger on DATA in specific locations of long I²C EEPROM reads. Get complete control of your debug process and finish faster.



Powerful Conditional Data Triggering

Completely isolate specific message events for better understanding and debug. Use a conditional trigger to select a range of values to trigger on, not just a single value. For example, oftentimes I²C utilizes DATA bytes to specify sub-addresses for accessing memory locations in EEPROMs. Conditional DATA trigger allows triggering on a range of DATA bytes that correspond to reads or writes to



specific sub-address memory blocks in the EEPROM. It can also aid in monitoring DATA outputs from sensors, such as analog-to-digital converters, and triggering when DATA is outside a safe operating range. In both cases, verifying proper operation becomes a simple task.

Intuitive, Color-Coded Decode Overlay

Advanced software algorithms deconstruct the waveform into binary, hex, or ASCII protocol information, then overlay the decoded data on the waveform.

Various sections of the protocol are color-coded to make it easy to understand. The decode operation is fast—even with long acquisitions.

Table Summary and Search/Zoom

Turn your oscilloscope into a protocol analyzer with the Table display of protocol information. Customize the table, or export Table data to an Excel file. Touch a message in the table and automatically zoom for detail. Search for specific address or data values in the acquisition.

| ldx | Time | Addr Length | Address | R/W | Length | Data |
|-----|------------|-------------|---------|-----|--------|------------|
| 8 | 240.494 ms | 7 | 0:21 | 1 | 2 | 0xff 00 00 |
| 9 | 360.555 ms | | 0x21 | 0 | 1 | 0x08 |
| 10 | 360.698 ms | | 0x21 | | | 0x49 00 00 |
| 11 | 481.865 ms | 7 | 0x21 | 0 | 1 | 0x0a |
| 12 | 482.007 ms | 7 | 0)(21 | 1 | 2 | 0x00 00 00 |
| 13 | 606.294 ms | 7 | 0x20 | 0 | 3 | 0x01 36 00 |
| 14 | 721.235 ms | 7 | 0x20 | 0 | 1 | 0x00 |
| 15 | 721.377 ms | 7 | 0x20 | 1 | 2 | 0x123600 |
| 16 | 841.266 ms | 7 | 0x20 | 0 | 1 | 0x02 |

LECROY WAVESCAN ADVANCED SEARCH

WaveScan provides powerful isolation capabilities that hardware triggers can't provide. WaveScan provides the ability to locate unusual events in a single capture (i.e., capture and search), or "scan" for an event in many acquisitions over a long period of time. Select from more than 20 search modes to find events on any analog or digital channel or search for a pattern across multiple digital channels.



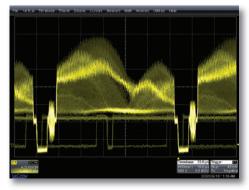
capability is much higher.

For instance, there is no "frequency" trigger in any oscilloscope, yet WaveScan allows for "frequency" to be guickly "scanned." This allows the user to accumulate a data set of unusual events that are separated by hours or days, enabling faster debugging. When used in multiple

acquisitions, WaveScan builds on the traditional LeCroy strength of fast processing of data. A LeCroy X-Stream oscilloscope will quickly scan millions of events looking for unusual occurrences, and do it much faster and more efficiently than other oscilloscopes can.

WaveStream Fast Viewing Mode

WaveStream provides a vibrant, intensity graded (256 levels) display with a fast update rate to closely simulate the look and feel of an analog oscilloscope. WaveStream is most helpful in viewing signals that have signal jitter or signal anomalies, or for applying a visual check before creating an advanced trigger or WaveScan setup to locate an unusual event.



Since the sampling rate in WaveStream mode can be as high as 5 GS/s (up to 2.5x that of other oscilloscopes), it is an excellent runt or glitch finder. Timing jitter is often visually assessed to understand approximate behavior. WaveStream makes it easy to understand jitter on edges or in eye diagrams. WaveStream also excels in allowing you to relate composite (WaveStream) to single-event (realtime sampled) behaviors. Just capture in WaveStream mode, toggle to view or zoom a single trace, then toggle back to WaveStream mode.

PROBES, ACCESSORIES, AND OPTIONS

LeCroy offers an extensive range of probes, accessories, and options for the MSO Xs-A. Leverage your investment with these items.

ZS Series High Impedance Active Probes

Leading Features:

- 1 GHz (ZS1000) and 1.5 GHz (ZS1500) bandwidths
- High Impedance (0.9 pF, 1 M Ω)
- Extensive standard and available probe tip and ground connection accessories
- ±12 Vdc offset (ZS1500)
- LeCroy ProBus system

ADP305, ADP300

Leading Features:

- 20 MHz and 100 MHz bandwidth
- 1,000 V_{rms} common mode voltage
- 1,400 V_{peak} differential voltage
- EN 61010 CAT III
- 80 dB CMRR at 50/60 Hz
- LeCroy ProBus system

PPE1.2KV, PPE2KV, PPE4KV, PPE5KV, PPE6KV, PPE20KV

Leading Features:

- Suitable for safe, accurate high-voltage measurements
- 1.2 kV to 20 kV
- Works with any 1 MΩ input oscilloscope

CP030, CP031

Leading Features:

- 30 A_{rms} continuous current (50 A_{peak})
- 50 or 100 MHz bandwidth
- Small form factor accommodates large conductors with small jaw size
- LeCroy ProBus system



AP031

Leading Features:

- Lowest priced differential probe
- 15 MHz bandwidth
- 700 V maximum input voltage
- Works with any 1 MΩ input oscilloscope



AP033, AP034

Leading Features:

- 500 MHz and 1 GHz bandwidth
- 10,000:1 CMRR
- Wide dynamic range, low noise
- LeCroy ProBus system

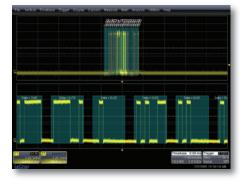


Extended Math Option

Adds 12 additional math functions, chaining of two math functions, rescaling with unit selection, and 1 Mpt FFTs.

I²C, SPI, UART, RS-232, Audiobus (I²S, LJ, RJ, TDM), MIL-STD-1553, CAN and LIN Trigger and Decode Options

Powerful serial triggering, including conditional data triggering, intuitive, color-coded decode overlay, search, and table display.



MSO Xs-A SPECIFICATIONS

| Analog Channels | MSO 44Xs-A | MSO 64Xs-A | MSO 104Xs-A | | |
|---|---|--|---|--|--|
| Bandwidth (@ 50 Ω) | 400 MHz | 600 MHz | 1 GHz | | |
| Rise Time | 875 ps | 500 ps | 300 ps | | |
| Input Channels | 4 | | | | |
| Display | 10.4" Color flat-panel TFT-LCD, 8 | 00 x 600 SVGA, touch screen | | | |
| Sample Rate (single-shot) | 2.5 (| 5 GS/s | | | |
| Sample Rate (RIS mode) | 50 GS/s | | | | |
| Standard Record Length | 10 Mpts/Ch (all channels) | | | | |
| Standard Capture Time Up to 2 ms at full sample rate on all four channels | | | | | |
| Vertical Resolution | 8-bits | | | | |
| Vertical Sensitivity (V/div) | 2 mV/div–10 V/div (1 MΩ); 2 mV/div–1 V/div (50 Ω) | | | | |
| Vertical (DC Gain) Accuracy | ±1.0% of full scale (typical); ±1.5 | ±1.0% of full scale (typical); ±1.5% of full scale ≥ 10 mV/div (warranted) | | | |
| BW Limit | 20 MHz, 200 MHz | | | | |
| Maximum Input Voltage | 50 Ω: 5 V _{rms} , 1 | MΩ: 400 V max. | 50 Ω: 5 V _{rms} | | |
| | (DC + Peak | AC ≤ 5 kHz) | 1 MΩ: 250 V max. (DC + Peak AC ≤ 10 kHz) | | |
| Input Coupling | AC, DC, GND (DC and GND for 5 | 50 Ω) | | | |
| Input Impedance | 1 MΩ 16 | 1 MΩ 20 pF, or 50 Ω | | | |
| Probing System | BNC or ProBus | | | | |
| Probes | One PP009 (5 mm) per channel (standard) | | One PP011 (5 mm) per channel (standard) | | |
| Digital Channels | | | | | |
| Number of Channels | 18 | | | | |
| Maximimum Input Frequency | 250 MHz | | | | |
| Sample Rate (per Ch) | 1 GS/s | | | | |
| Record Length (per Ch) | 10 Mpts | | | | |
| Threshold Groupings | D0–D8, D9–D17 | | | | |
| Threshold Levels | TTL, ECL, CMOS (2.5 V, 3.3 V, 5 V), PECL, LVDS or User Defined | | | | |
| Input Impedance | 100 kΩ 5.0 pF | | | | |
| Maximum Input Voltage | ± 30 V non-destruct | | | | |
| Horizontal and Trigger | | | | | |
| Timebase Range | 200 ps/div_1000 s/div Irall made fro | om 500 ms/div_1000 s/div/ | | | |
| Timebase Accuracy | 200 ps/div−1000 s/div (roll mode from 500 ms/div−1000 s/div) ≤ 5 ppm @ 25 °C (typical) (≤ 10 ppm @ 5–40 °C) | | | | |
| Trigger Modes | Normal, Auto, Single, and Stop | | | | |
| Trigger Sources | Any input channel, External, Ext/10, or line; slope and level unique to each source (except for line trigger) | | | | |
| Trigger Coupling | DC, AC, HFRej, LFRej | | | | |
| Pre-trigger Delay | 0-100% of full scale | | | | |
| Post-trigger Delay | | | | | |
| Trigger Hold-off | 0-10,000 divisions 1 ns to 20 s or 1 to 1,000,000,000 events | | | | |
| Internal Trigger Level Range | ±4.1 div from center | event9 | | | |
| | | | | | |
| External Trigger Range | EXT/10 ±4V; EXT ±400 mV | | | | |

MSO Xs-A SPECIFICATIONS

| Trigger Types | MSO 44Xs-A | MSO 64Xs-A | MSO 104Xs-A |
|--------------------------------------|---|--|---------------------------------------|
| Standard | Edge, Glitch, Width, Logic (Patte Interval (Signal or Pattern), Drop | ern), TV (NTSC, PAL, SECAM, HDTV – out, Qualified (State or Edge) | 720p, 1080i, 1080p), Runt, Slew Rate, |
| Measure, Zoom, and Math Tools | | | |
| Standard Parameter Measurements | Up to 6 of the following parameters can be calculated at one time on any waveform: Amplitude, Area, Base (Low), Delay, Duty, Fall Time (90%-10%), Fall Time (80%-20%), Frequency, Maximum, Mean, Minimum, Overshoot+, Overshoot-, Period, Peak-Peak, Phase, Rise Time (10%-90%), Rise Time (20%-80%), RMS, Skew, Standard Deviation, Top (High), Width+, Width Measurements can be gated. | | |
| Zooming | Use front panel QuickZoom butto | on, or use touch screen or mouse to dra | aw a box around the zoom area. |
| Standard Math | | nce, Product, Ratio, and FFT (up to 25 k n, and FlatTop windows). 1 math functi | |
| Physical (MS-250) | | | |
| Dimensions (HWD) | 1.5" x 4.25" x 8.375" (3.8 x 10.8 x | 21.2 cm) | |
| Weight | 1.7 lbs. (.775 kg) | | |
| Leadset Length | 16" (40.65 cm) | | |
| Physical (Base Oscilloscope) | | | |
| Dimensions (HWD) | 10.25" x 13.4" x 6" (26 cm x 34 cr | n x 15 cm) Excluding accessories and p | rojections |
| Net Weight | 16.0 lbs. (7.26 kg.) | | |
| Option | | | |
| Extended Math (WSXs-MATHSURF Option) | Derivative, Envelope, Enhanced | ath functions: Absolute Value, Averagir Resolution (to 11- bits), Floor, Integral, Square, and Square Root. Also adds ch | Invert, Reciprocal, Rescale |

ORDERING INFORMATION

| Product Description | Product Code | Product Description | Product Code |
|--|---------------------|---|------------------------------------|
| MSO Xs-A Mixed Signal Oscilloscopes | | Local Language Overlays | |
| 1 GHz, 5 GS/s, 4 + 18 Ch, 10 Mpts/Ch MSO | MSO 104Xs-A | Chinese (Tr) Front Panel Overlay | WSXs-A-FP-CHNES-TR |
| with 10.4" Color Touch Screen Display | | Chinese (Simp) Front Panel Overlay | WSXs-A-FP-CHNES-SI |
| 600 MHz, 2.5 GS/s, 4 + 18 Ch, 10 Mpts/Ch MSO | MSO 64Xs-A | Russian Front Panel Overlay | WSXs-A-FP-RUSSIAN |
| with 10.4" Color Touch Screen Display | | | |
| 400 MHz, 2.5 GS/s, 4 + 18 Ch, 10 Mpts/Ch MSO | MSO 44Xs-A | Software Options | |
| with 10.4" Color Touch Screen Display | | Extended Math Software Package | WSXs-MATHSURF |
| Included with Ctandard Configuration | | Electrical Telecom Mask Test Software Package | |
| Included with Standard Configuration | | Windows Lockout Software Option | WSXs-LOCKOUT |
| MS-250 Mixed Signal Oscilloscope Option | | | |
| Advanced Triggering with LeCroy SMART Triggers | | Serial Data Options | |
| ± 10 , 500 MHz, 10 M Ω Passive Probe (Total of 1 Per Chan | nel) | I ² C Trigger and Decode Option | WSXs-I2Cbus TD |
| Getting Started Manual and Quick Reference Guide | | UART and RS-232 Trigger and Decode Option | WSXs-UART-RS232bus TD |
| Standard Ports: 10/100Base-T Ethernet, USB 2.0 (5), | | SPI Trigger and Decode Option | WSXs-SPIbus TD |
| SVGA Video out, Audio in/out, RS-232 | | LIN Trigger and Decode Option | WSXs-LINbus TD |
| Protective Front Cover | | CAN Trigger and Decode Option | WSXs-CANbus TD |
| Anti-virus Software (Trial Version) | | Audiobus Trigger and Decode Option | WSXs-Audiobus TD |
| Standard Commercial Calibration and Performance Certification | cate | for I ² S, LJ, RJ and TDM | |
| 3-year Warranty | | MIL-STD-1553 Trigger and Decode Option | WSXs-1553 TD |
| Mixed Signal Accessories | | Probes and Amplifiers* | |
| Large Gripper Probe Set for 0.10" (2.54 mm) Pin Pitch, | PK400-1 | Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 MΩ | ZS1500-QUADPAK |
| Includes 10 Color-coded Probes | | High Impedance Active Probe | |
| Medium Gripper Probe Set for 0.04" (1.0 mm) Pin Pitch, | PK400-2 | Set of 4 ZS1000, 1 GHz, 0.9 pF, 1 MΩ | ZS1000-QUADPAK |
| Includes 10 Color-coded Probes | | High Impedance Active Probe | |
| Small Gripper Probe Set for 0.008" (0.2 mm) Pin Pitch, | PK400-3 | 1 GHz Active Differential Probe (÷1, ÷10, ÷20) | AP034 |
| Includes 10 Color-coded Probes | | 500 MHz Active Differential Probe (x10, ÷1, ÷10 | , ÷100) AP033 |
| 18-pin 3M Interface Cable | MSO-3M | 30 A; 100 MHz Current Probe – AC/DC; 30 A _{rms} | ; 50 A _{peak} Pulse CP031 |
| (Mates with 3M Part Number 2520-6002) | | 30 A; 50 MHz Current Probe – AC/DC; 30 A _{rms} ; 5 | |
| | | 30 A; 50 MHz Current Probe – AC/DC; 30 A _{rms} ; 5 | |
| General Accessories | | 150 A; 10 MHz Current Probe – AC/DC; 150 A _{rm} | |
| Keyboard Accessory | WSXs-KYBD | 500 A; 2 MHz Current Probe – AC/DC; 500 Arms; | |
| Optical Mouse Accessory | WSXs-MOUSE | 1,400 V, 100 MHz High-Voltage Differential Probe | |
| External GPIB Accessory | WS-GPIB | 1,400 V, 20 MHz High-Voltage Differential Probe | ADP300 |
| , 0 | VSXs-HARDCASE | 1 Ch, 100 MHz Differential Amplifier | DA1855A |
| | WSXs-SOFTCASE | with Precision Voltage Source | |
| Rack Mount Accessory | WSXs-RACK | *A wide variety of other passive, active, and differential | I probae are also available |
| Accessory Pouch | WSXs-POUCH | Consult LeCroy for more information. | i propes are also avaliable. |

Mounting Accessory

WSXs-MS-CLAMP Clamp Mounting Stand

Local Language Overlays

| German Front Panel Overlay | WSXs-A-FP-GERMAN |
|------------------------------|--------------------|
| French Front Panel Overlay | WSXs-A-FP-FRENCH |
| Italian Front Panel Overlay | WSXs-A-FP-ITALIAN |
| Spanish Front Panel Overlay | WSXs-A-FP-SPANISH |
| Japanese Front Panel Overlay | WSXs-A-FP-JAPANESE |
| Korean Front Panel Overlay | WSXs-A-FP-KOREAN |

Customer Service

LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years, and our probes are warranted for one year.

This warranty includes:

• No charge for return shipping

- Long-term 7-year support
- Upgrade to latest software at no charge



1-800-5-LeCroy Local sales offices are located throughout the world. www.lecroy.com Visit our website to find the most convenient location.

ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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Телефон: +7 495 668-12-70 (многоканальный)

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