

WavePro® 7 Zi Series

1.5 GHz - 6 GHz



THE NEW OSCILLOSCOPE EXPERIENCE IS HERE

The Only Complete Debug Solution Up to 6 GHz

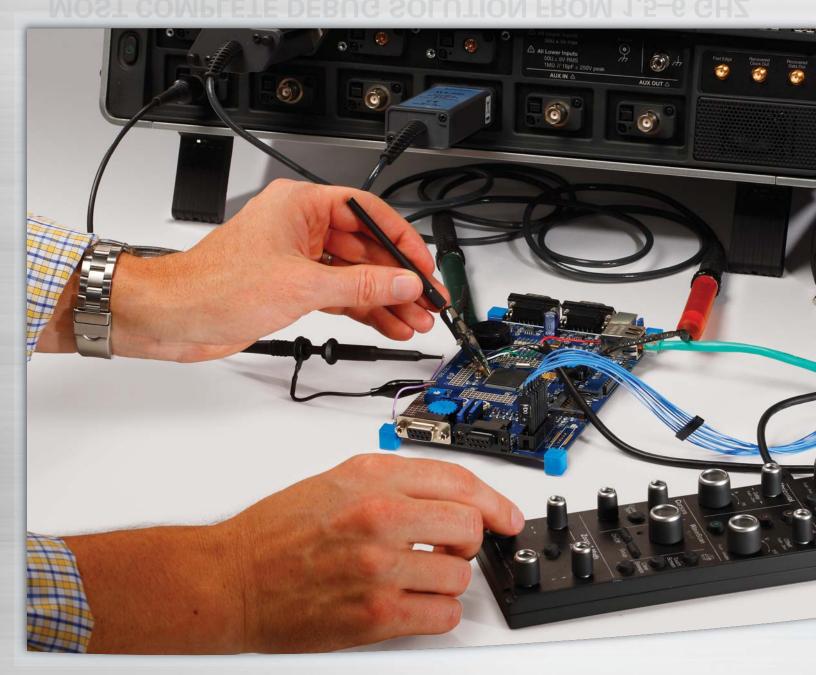
Combining signal fidelity with an architecture that maximizes speed in every performance aspect, the new WavePro 7 Zi Series presents a totally new oscilloscope experience from 1.5 to 6 GHz bandwidths. Experience 50 Ω and 1 M Ω inputs for every channel and four inputs into high-speed front end amplifiers and analog to digital converters. Experience the new X-Stream II architecture that provides 10 to 20 times faster long memory performance than any other oscilloscope. Combined with LeCroy's flexible and deep analysis toolbox, the WavePro 7 Zi Series gives an unforgettable experience for the debugging, validation, analysis and compliance testing of electronic designs.





- **1.** X-Stream II streaming architecture 10–20 times faster than other oscilloscopes
- 2. Deepest toolbox with more measurements, more math, more power
- TriggerScan[™] detects and captures more anomalies per second
- **4.** Exceptional instrument responsiveness, even at maximum acquisition memory (256 Mpts)
- 5. 500 Mpts/s data transfer rate from oscilloscope to PC with LeCroy Serial Interface Bus (LSIB) option
- **6.** 750,000 measurements/second with optimal signal integrity
- 7. 15.3" widescreen (16x9) high resolution WXGA color touch screen display
- **8.** Protect your investment with bandwidth upgrades
- Serial Data Analyzer and Disk Drive Analyzer models are tailored for advanced serial data analysis and for the most complete disk drive test solution
- 10. Low-speed serial triggering and decode (I²C, SPI, UART-RS232, CAN, LIN, FlexRay™) available to provide a total system view
- **11.** WaveScan[™] quickly and intuitively locates, analyzes and displays abnormal events even in long waveforms
- **12.** 50 Ω and 1 M Ω inputs on 1.5–6 GHz models provide unsurpassed flexibility
- **13.** ProBus and ProLink probe interfaces on 4–6 GHz models offer 8 inputs for multiplexing into four channels. Minimize reconnections.

MOST COMPLETE DEBUG SOLUTION FROM 1.5–6 GHz



Freedom from Limitations

WavePro 7 Zi excels in the way it offers general purpose utility never before seen in oscilloscopes from 1.5 to 6 GHz. All WavePro 7 Zi oscilloscopes contain selectable 50 Ω and 1 M Ω input capability. The 4 and 6 GHz models include both ProBus and ProLink input types which means eight probes can be attached and then

multiplexed from the front panel or by remote control. The result—it's easy to hook up a passive probe even on 4 or 6 GHz models—no more frustration and hassle of trying to find a 1 M Ω input adapter. Plus, any existing investment in LeCroy probes, such as current probes, single-ended or differential active probes, or high voltage probes, is fully leveraged. Perfect.

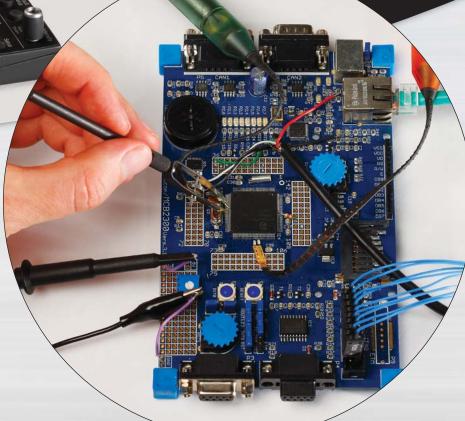
A New Way to Control an Oscilloscope

WavePro's fast and responsive front panel and touch screen user interface are well integrated so you can easily choose and setup your vertical, horizontal trigger and measurements. Zoom and scroll through a long waveform signal, control the oscilloscope with the detachable front panel right next to the circuit being probed.



Quick Insight for Debug

Insight is the power or act of seeing into a situation. Start up problems on a new design require a combination of problem recognition, precise triggering for fast isolation of rare events, and comparison tools that help correlate timing of problems. The ability to capture megapoints of waveform information and intuitively analyze it to find anomalies shortens the time to debug. WavePro's TriggerScan, WaveScan and deep measurement toolbox maximize quick insight.



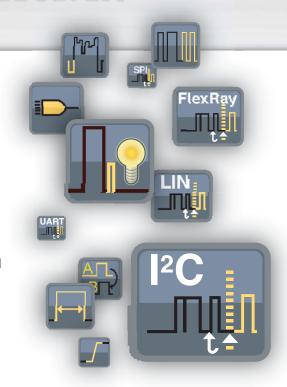
Single-ended active probes, current probes, high-voltage, mixed signals, and high frequency differential probes all connect to the WavePro 7 Zi oscilloscope and give you a total system view.

QUICK INSIGHT: TRIGGER ON THE PROBLEM

More Triggers Isolate More Problems More Effectively

A powerful combination of high bandwidth Edge and 10 different SMART triggers allow you to isolate the problem quickly and begin to focus on the cause. Most SMART triggers allow triggering on pulse widths or features as small as 200 ps. A high-speed serial trigger enables triggering on up to 2.7 Gb/s serial patterns of up to 80-bits in length. Built-in hardware clock recovery is also included.

A full range of serial triggers (I²C, SPI, UART, RS-232, CAN, LIN, FlexRay) are available, providing capability to isolate events related to serial peripheral bus traffic. Most serial triggers contain powerful conditional DATA triggering to allow inclusion or exclusion of entire ranges of data values, which will expedite understanding of how a range of serial bus traffic DATA values interact with other signals.



TriggerScan[™]

TriggerScan uses high-speed hardware triggering capability with persistence displays to capture only the signals of interest and provide answers up to 100X faster that other methods.

Traditional fast display update modes work best on frequent events occurring on slow edge rates while TriggerScan excels in finding infrequent events on fast edge rates.

Since hardware triggering is used to capture only the elusive events, TriggerScan is more effective at finding anomalies quickly compared to simple display technologies.

A built-in automated Trigger Trainer analyzes the waveforms, identifies normal behavior, and then sets up a large set of rare event smart trigger setups that target abnormal behavior. The trainer 'learns' trigger setups to identify faulty operation based on



A 1 in a billion rare event seems fast but is only 5 seconds of circuit operation on a 200 MHz clock. TriggerScan finds the rare event in 4 minutes while an oscilloscope with 400,000 waveforms/second capture rate misses 99.8% of the signals and could spend nearly 42 minutes to find the error.

slew rates, periods, amplitudes outside of a range and then applies them sequentially. It then rapidly sequences through each individual trigger with a user-defined dwell time, and captures and displays any anomalous signals that meet the trigger conditions.

QUICK INSIGHT: SEARCH AND SCAN TO UNDERSTAND

WaveScan[™] Advanced Search and Analysis Finds Problems that Triggers Won't Find

The best trigger won't find all unusual events—a more powerful capability is sometimes needed. 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 (frequency, rise time, runt, duty cycle, etc.), apply a search condition and begin scanning. When an event is found, WaveScan highlights the error on screen and displays a table listing the errors. Simply click on an event in the table and go right to the anomaly. The X-Stream II processing architecture quickly 'scans' millions of events much faster than any other oscilloscope. Individual events can be compared and contrasted using ScanHisto and ScanOverlay features. These tools simplify the understanding of how errors correlate across input channels thus enabling faster debug.



Find over 20 different types of features with WaveScan. Each feature is highlighted in the waveform and listed in a table. From the Scan Table jump directly to any anomaly and overlay for characterization.

Serial Decode—A Whole New Meaning to Insight

Advanced software algorithms deconstruct serial data waveforms into binary, hex, or ASCII protocol information and then overlay the decoded data on the waveform. Each section of the protocol is uniquely color-coded to make it easy to understand. The decode operation is fast—even with long acquisitions. 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. Select a table entry and automatically zoom for detail. Search for specific address or data values in the acquisition. Supported serial standards are I²C, SPI CAN, LIN, UART-RS-232, and FlexRay.

Fully Integrated Mixed Signal Oscilloscope (4+36) Option

Add Mixed Signal Oscilloscope (MSO) operation using the MS Series mixed signal options. These convenient add-ons connect to the LeCroy LBUS and quickly and simply provide capability to acquire up to 36 digital lines time-correlated with analog waveforms. No time is wasted in trying to learn how to connect, synchronize or operate a complicated logic analyzer since the MSOs

are already completely integrated with the scope operation. In addition to acquiring digital lines, they are also helpful for monitoring low-speed signals, such as serial data clock, data, and chip select signals, thus preserving the analog channels for higher speed requirements.



MSO options add capability to incorporate both analog and digital signals into a 4+36 pattern trigger for useful debugging in mixed signal designs.

X-STREAM™ II FAST ANALYSIS AND RESPONSIVENESS



Deep Insight for Analysis

Applying the WavePro 7 Zi Series' flexible and deep measurement and analysis toolbox to characterize and validate a design creates understanding. That is Deep Insight. An oscilloscope's operating performance comes from the design that integrates the operating system, the hardware processor specification and the waveform processing method. Each component is important to the overall architecture performance but only the X-Stream II waveform processing method unleashes amazing speed performance and no compromise in responsiveness, thus drastically reducing the time to generate Deep Insight.

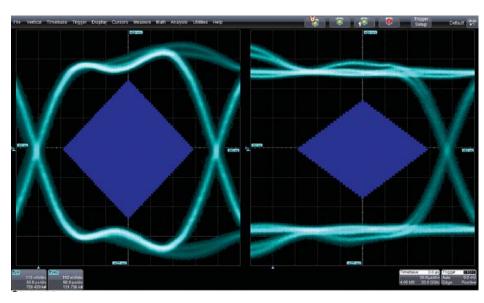
LeCroy — The Acquisition Memory Leader

LeCroy has found a way to make long acquisition memory seamless and pain free to use. The WavePro 7 Zi Series' proprietary X-Stream II architecture supports capturing, zooming, measuring and analyzing multiple waveforms at 256 Mpts deep. What you experience is performance gains of 10-20X over what is available today. Whether looking at the acquired signal or while analyzing several screens of statistics, tracking a frequency or identifying complex patterns the WavePro 7 Zi is designed to perform. When the application calls for post-processing data off-line, an optional high-speed 500 Mpts/second option provides readout over 20X faster than any other test instrument.

Instantaneous Responsiveness

The first time you use the Zi oscilloscope you will experience responsiveness that you've never seen before.

Acquiring and manipulating the longest



WavePro 7 Zi excels at performing complex calculations on long waveforms, enabling users to gain waveform insight with confidence. Here, a 50 Mpts PCIe Gen1 waveform acquisition is acquired and fully analyzed in a matter of seconds—nearly 100X faster than competitive oscilloscopes.

record lengths and the most complex WaveShape Analysis are all easily handled at the same time. Whether you use the front panel or choose to make adjustments with a mouse or the touch screen, the system performs. The simple act of turning a knob to change the offset or make an adjustment to trigger delay happens quickly. No time is lost waiting for an

operation to end or the next one to begin. Some competitive oscilloscopes become painfully slow to respond when long memory is applied.

The LeCroy X-Stream II is the basis for a fast and responsive oscilloscope.

Bottom line: oscilloscopes no longer need to carry a penalty for operating with long memory.

X-Stream II Architecture

Optimized for Fast Throughput

Designed for long memory operation and responsiveness X-Stream II technology enables high throughput of data—even when the oscilloscope is performing multiple 100 Mpts waveforms. It does so by eliminating the trade-offs between long memory length and quick processing. WavePro 7 Zi's proprietary architecture design is augmented with an Intel[®] Core[™] 2 Quad processor, high-speed serial data buses, a 64-bit OS and up to 8 GB of RAM.

Optimized for Long Memory

By using variable waveform segment lengths to improve the CPU cache memory efficiency the WavePro 7 Zi is designed for the fastest processing of long waveform records. The result—10-20 times faster processing compared to other oscilloscopes.

Optimized for Responsiveness

By dynamically allocating buffers to maximize memory availability, the WavePro 7 Zi Series embodies the fastest front panel responsiveness. Waveform previewing shows interim calculation results while a built in processing abort make front panel control changes instant by stopping the current process and allowing new waveforms to be positioned or zoomed—all without a lengthy recalculation.

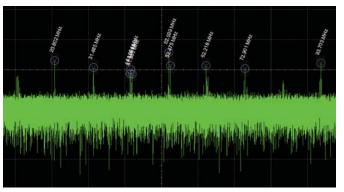
DEEP INSIGHT TO CLARIFY COMPLEX SIGNALS

All Oscilloscope Tools are not Created Equal

WavePro 7 Zi has the deepest toolbox of any oscilloscope, providing more measure, math, graphing, statistical, and other tools, and more ways to leverage the tools to get the answer faster. While many other oscilloscopes provide similar looking tools, LeCroy allows the most flexibility in applying the tools to any waveform-whether it be a math or graphing function, memory trace, FFT, or parameters. Tools can be chained together to create unique views and understanding. All tools supplied with optional application packages are always integrated into the general purpose oscilloscope.

More Ways to Analyze

Convert time-domain information into statistical, parameter, or frequency domain. Use the oscilloscope as a spectrum analyzer for detailed frequency analysis (WPZi-SPECTRUM option). Implement Finite or Infinite Impulse Response (FIR or IIR) filters to eliminate undesired spectral components and enhance your ability to examine important waveform components (WPZi-DFP2 option).



X-Stream II fast throughput streaming architecture makes difficult analysis and deep insight possible. Above, an FFT is applied to a 50 Mpts waveform to determine root cause failure. The high frequency resolution this provides enables deep insight into signal pathologies.



XDEV allows MATLAB® script to apply a customized filter and return the waveform to the scope display. Continue further analysis with the advanced toolbox in the oscilloscope.

More Ways to Create

Only LeCroy completely integrates third party programs into the scope's processing stream by allowing you to create and deploy a new measurement or math algorithm directly into the oscilloscope environment and display the result on the oscilloscope in real-time! There is no need to run a separate program, or ever leave the scope window. With the XDEV Advanced Customization package, you can extend your WavePro 7 Zi to

include your most unique algorithms using FastWave port based on C/C++, and other programs (MATLAB, Excel, Jscript (JAVA), and Visual Basic). The code is entered in real time using the oscilloscope menus, which allows the built in debugger to provide immediate feedback. The resulting measurement or math waveform is then returned to the display, allowing further analysis within the oscilloscope.

DISPLAY OPTIMIZED FOR ANALYSIS

More Ways to Understand

Use the processing web to set up advanced math operations. Apply multiple operators and process large amounts of data simultaneously to achieve the deepest of insights. Overlay colorcoded protocol decodes to serial datastreams for fast understanding.

Track Views

Track in WavePro 7 Zi (WPZi-JTA2 option) uses every instance of a measurement in an acquisition to create a plot of measurement values on the Y-axis and time on the X-axis. The result is a graphical display of a measurement change time-correlated to the original channel acquisition—perfect for intuitive understanding of behaviors in FM or pulse width modulation (PWM) circuits and jitter measurements, including modulation or spikes.



Capture 5 ms (100 Mpts) of low-speed and high-speed waveforms. Easily zoom, and validate timing relationships between signals.

Histograms

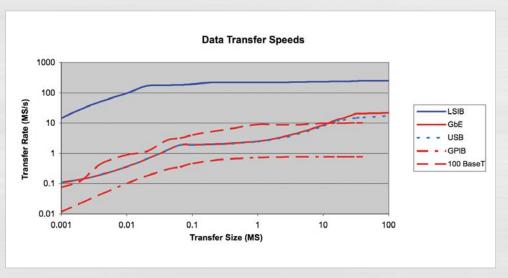
WavePro 7 Zi calculates over 750,000 measurements/second—5X faster than other oscilloscopes in its class. With this much data, it is essential to provide more than just a list of mean, min, max, sdev, etc. values. Histograms provide an intuitive way to graphically view the distribution of statistical data and quantify real insight into underlying problems.

Trend Views

Slowly sample at 1000 seconds/div to capture hours of slow speed signal data and turn your oscilloscope into a strip chart Recorder. Using Trend views, plot measurement values of high-speed signals with slower speed signals, such as transducer or voltage values.

Data Transfer Speeds 25–100X Faster

LeCroy's LSIB solution enables direct connection to the PCI Express® X4 high-speed data bus in the oscilloscope to enable data transfer rates up to 250 Mpts/s. All that is required is installation of an optional LSIB card in the oscilloscope and the corresponding host board (card) for desktop (laptop) PC in the remote computer. Data transfer is easily enabled through a supplied application program interface (API).



PROBES

High-performance probes are an essential tool for accurate signal capture. Consequently LeCroy offers an extensive range of probes to meet virtually every application need. Optimized for use with LeCroy oscilloscopes, these probes set new standards for responsiveness and signal detection.

ZS Series High Impedance Active Probes

- 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)
- LeCrov ProBus system

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

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



CP030 and CP031

- 30 A_{rms} continuous current
- 50 or 100 MHz bandwidth
- Measure pulses up to 50 A_{peak}
- Small form factor accommodates large conductors with small iaw size





AP031

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

AP033 and AP034

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



HFP2500

- 2.5 GHz bandwidth, 0.7 pF input capacitance
- Interchangeable tips for a variety of probing needs
- Hands free probing with probe holder
- AutoColor ID matches probe color to channel



ADP305, ADP300

- 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

WAVELINK PROBES

WaveLink™ Differential probes provide industry leading performance for wideband signal connection to test instruments. The flexible connection options and superior signal fidelity make the WaveLink probe a perfect complement to the WavePro 7 Zi oscilloscope.

D610/D620 and D310/D320

The new amplifiers boast excellent noise performance that is essential for making precise jitter and other signal integrity measurements. The high DC and midband impedance make them ideal for many serial data and memory



applications such as PCI Express, FireWire, and DDR. With ±4 volt offset capability and ±3 volt common mode control, the WaveLink probes are designed for multi-purpose applications for single ended needs (such as DDR memory) and serial data applications (such as HDMI).

D600A-AT/D500PT Browser

WaveLink browser solutions offer adjustable tip widths and varying form factors and a hand held x-y-z positioner for accurate probe placement.





Three Different Tips for Interconnect Flexibility

WaveLink offers 3 interconnect configurations for the most flexible probing solution.



A. Solder-In Lead

The Solder-In interconnect lead features the highest electrical performance and smallest physical tip size of any high bandwidth differential probe.



B. Quick Connect (D610/D620 only)

Quickly move the probe between multiple test points on the test circuit. Solder a pair of damping resistors at each desired interconnect location. Move easily between test points.



C. Square Pin

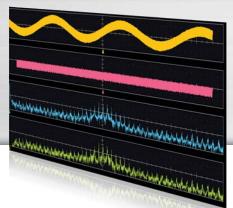
The Square Pin interconnect lead directly mates with a pair of 0.025" (0.635 mm) square pins that are mounted on standard 0.100" (2.54 mm) centers.

APPLICATION SPECIFIC SOLUTIONS

In addition to the general purpose WaveShape Analysis tools, application specific solutions are available for Automotive, Embedded Design, Digital Design, and Serial Data Compliance.
These packages extend the LeCroy standard measurement and analysis capabilities and expand

your oscilloscope's utility

as your needs change.



Digital Filter Software Package (WPZi-DFP2)

DFP2 lets you implement Finite or Infinite Impulse Response filters to eliminate undesired spectral components, such as noise, and enhances your ability to examine important signal components. You can choose from a standard set of FIR or IIR filters. You can also design your own filters.



Spectrum Analyzer Analysis Package (WPZi-SPECTRUM)

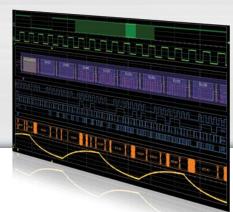
The spectrum converts the controls of your oscilloscope to those of a spectrum analyzer. Adjust the frequency span, resolution and center frequency. Apply filtering to your signal and watch the frequency signature change in real time. A unique peak search labels spectral components and presents frequency and level in a table. Touch any line to move to that peak.

Serial Data Trigger and Decode

Quickly and easily isolate serial data events on your embedded controller for better understanding and faster debug. Trigger and decode options provide powerful conditional triggering, intuitive color-coded decode overlays, and a table summary with search and zoom capabilities. Solutions are available for I²C, SPI, UART/RS-232, CAN, LIN, and FlexRay.



I²C decoding package with intuitive color decoding and table view allows quick location of 0x42 address.



Mixed Signal Oscilloscope Option (MS-250/MS-500)

The Mixed Signal option allows the WavePro 7 Zi to convert to a mixed signal oscilloscope with up to 36 digital channels. Channels are sampled at 2 GS/s up to 50 Mpts/Ch. Having up to 36 digital inputs time-synchronized with four analog channels extends the oscilloscope's use to provide a total system view.

Serial Data Compliance Packages

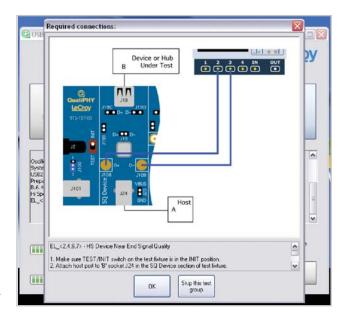
QualiPHY serial data compliance packages provide easy to use stepby-step instructions for a broad

set of serial data standards, such as USB 2.0, PCI Express, SATA, and UWB (Ultra-Wideband). With fast automated performance, illustrated instructions and comprehensive reporting capability, QualiPHY packages are the best solution for compliance testing.



Jitter and Timing Analysis Package (WPZi-JTA2)

Specialized timing parameters measure period, cycle-cycle, half period, width, etc. jitter on a variety of signals. Use the three views of jitter (statistical, time, and frequency) to understand root cause and to debug problems. Histograms provide understanding of statistical distributions. Tracks provide a means to show time-correlated peaks of jitter, and compare to other signals. FFTs provide the ability to debug root causes of high in-circuit jitter.



Quick Insight. Deep Insight.

Experience the WavePro 7 Zi Series













Insight comes from access to multiple ways to analyze a problem. WavePro Zi's Processing Web is a graphical, intuitive way to create powerful, chained math or measurement calculations. No equation editing required...it's all visual.

most usable and thorough hardware and software measuring toolsets and advanced triggering to find elusive events. The integration and speed in finding, understanding and fixing design problems inspires confidence. LeCroy WavePro 7 Zi oscilloscopes were created to provide insight and designed to inspire the confidence necessary to get the job done more completely and in less time.

SDA 7 Zi SERIES

Key Features

- LeCroy's unique summary view displays the Eye
 Pattern, TIE, Bathtub Curve and Jitter Histogram all on the screen at the same time
- De-Embed cables allow all of the SDA tools to be used as if the cables were not in the system
- Create Eye Patterns utilizing the full memory for maximum statistical significance
- Display Eye Patterns up to 100 times faster than other solutions
- Trigger on 80-bit patterns at up to 2.7 Gb/s using the Serial Trigger
- Decode 8b/10b data on up to 4 lanes simultaneously
- Configure software PLL for any standard or custom requirement
- Serial data compliance testing
- Ethernet
- USB 2.0
- HDMI 1.2
- PCI Express (2.5 GT/s)
- Serial ATA (1.5 Gb/s)
- UWB



A Total Solution for Serial Data Analysis

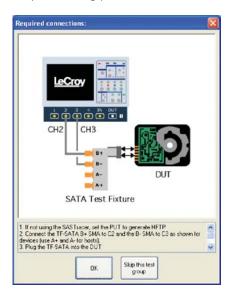
Unleash the power of serial data analysis for understanding and characterizing your design, proving compliance and why a device or host fails compliance. The Quad Summary View of the SDA always shows the eye, TIE, bathtub curve and jitter histogram. No other Analyzer lets you see the simultaneous interaction and real-time changes in all four measurements. The X Stream II Architecture provides fast updates and the fastest eye interpretation. The fastest eye building and the maximum unit intervals per second means the shortest time to understanding.

A high-speed serial trigger enables triggering on up to 2.7 GB/s serial patterns or up to 80-bits in length.

Jitter calculations are based on statistics. With the most advanced long memory performance to 256 Mpts/Ch and X-Stream II enabled responsiveness, jitter breakdown occurs rapidly.

Automated Compliance Testing

QualiPHY compliance test suite provides easy to use step by step instructions for testing compliance on a wide array of serial data standards. Fast automated test operation, illustrated instructions and connection diagrams simplify the process. Complete test reporting is provided along with 'stop on fail' feature which starts you on your debug process.



A TOTAL SOLUTION FOR SERIAL DATA ANALYSIS

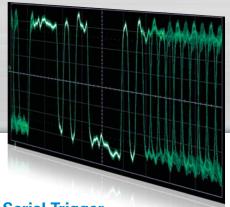


Whether debugging eye pattern failures or other compliance test failures, the SDA Series has the tools that are easily accessible. Rapidly isolate the source of the problem in your design. Advanced usability like 8b/10b decode, mask violation locator, ISI plot, spread spectrum clocking analysis are easily accessed. Cable de-embedding lets you adjust for cable effects by inserting S-parameters for a given cable type. The result...true rise time and amplitudes in your measurements. The SDA uses the same flexible math on math analysis which is valuable when understanding design behavior in the event of a compliance failure.

Data Rate Configuration Chart

Standard	Bit Rate		Recommended Bandwidth	Recommended Oscilloscope	
Ethernet	250	Mb/s	1 GHz	WavePro 715Zi or Above	
USB	480	Mb/s	2 GHz	WavePro 725Zi or Above	
Fibre Channel	531.25	Mb/s	1.5 GHz	SDA 725Zi or Above	
IEEE 1394b FireWire	786.43	Mb/s	2 GHz	SDA 725Zi or Above	
Rapid I/O LP-LVDS	1	Gb/s	2.5 GHz	SDA 725Zi or Above	
Fibre Channel	1.0625	Gb/s	2.5 GHz	SDA 725Zi or Above	
IOF	1.24416	Gb/s	3.5 GHz	SDA 735Zi or Above	
Ethernet	1.25	Gb/s	3.5 GHz	SDA 735Zi or Above	
Rapid I/O LP-LVDS	1.25	Gb/s	3.5 GHz	SDA 735Zi or Above	
Rapid I/O LP-LVDS	1.5	Gb/s	4 GHz	SDA 740Zi or Above	
SAS	1.5	Gb/s	4 GHz	SDA 740Zi or Above	
SerialATA	1.5	Gb/s	4 GHz	SDA 740Zi or Above	
IEEE 1394b FireWire	1.5729	Gb/s	4 GHz	SDA 740Zi or Above	
HDMI 1.2a / DVI	1.65	Gb/s	4 GHz	SDA 740Zi or Above	
Rapid I/O LP-LVDS	2	Gb/s	6 GHz	SDA 760Zi or Above	
Fibre Channel	2.125	Gb/s	6 GHz	SDA 760Zi or Above	
InfiniBand	2.5	Gb/s	6 GHz	SDA 760Zi or Above	
PCI Express	2.5	Gb/s	6 GHz	SDA 760Zi or Above	
Rapid I/O LP-LVDS	2.5	Gb/s	6 GHz	SDA 760Zi or Above	

SDA – ADVANCED TOOLS TO ISOLATE AND ANALYZE



Serial Trigger

The SDA 7 Zi Series come standard with the 80-bit Pattern Trigger installed. The SDA 760Zi and SDA 740Zi include the High-speed Pattern Trigger option (up to 2.7 Gb/s) while the SDA 735Zi and SDA 725Zi pattern triggers up to 1.25 Gb/s. Both pattern triggers provide a recovered clock and data output on the front of the oscilloscope.



8b/10b Decoding

LeCroy 8b/10b serial decode option with powerful search capability enables captured waveforms to be searched for user-defined sequences of symbols. Multi-lane analysis decodes up to four simultaneously captured lanes.



Spread Spectrum Clock

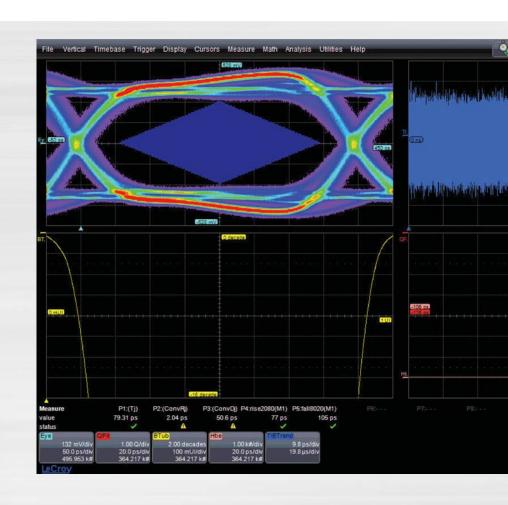
LeCroy's long acquisition memory and fast sample rate are ideal for seeing fine details in data transmitted with Spread Spectrum Clocks (SSC). Today's designs use SSC for its low modulation frequency, typically 33 kHz, and lower noise contribution. Quickly access the whole waveform memory to see the modulation effects.

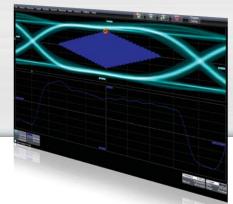
Eye Patterns Show Mask Violations to the Bit

- Eve pattern measurement on up to 8 million consecutive bits ensures that even transient jitter and noise events are captured
- Consecutive bit eye pattern analysis allows for the measurement of the wave shapes of individual bits that violate the compliance mask (violation location)
- The fastest UI accumulation and very low measurement jitter (typically 1 ps rms)

Jitter Bathtub

- Bathtub curve extrapolated directly from the time interval error (TIE) histogram gives an accurate total jitter measurement
- Presents jitter as a function of bit error rate
- Predicts maximum BER performance of system





Mask Violation Locator

Mask failures are identified by contrasting color spots which appear anywhere the data intersects the mask template. Users can call up the actual stored bit stream waveform at the point in time of the initial failure. The actual bit sequence is also identified, pointing out any ISI problems. Instantly jump to the next violation, or any other within the stored pattern.



ISI Plot

The ISI plot displays data dependent jitter contributions to the eye pattern for the second-to-last bit of a bit length, set from 3 to 10. This plot measures data dependent jitter without the need for a repeating bit pattern.



Before



- clearly shows any unusual jitter distributions such as bi-modal or non-Gaussian tails. By simply viewing the jitter breakdown (Rj, Dj), the raw data view shows jitter behavior that can be lost
- This unprocessed display gives a high degree of confidence in the accuracy of the jitter breakdown and bathtub curve



After

Cable De-Embedding

Remove cable effects from your measurements. Simply enter the S-parameters of the cable then all of the functionality of the SDA 7 Zi can be utilized with cable effects de-embedded.

DDA 7 Zi SERIES

Key Features

- 3.5 or 6 GHz
- Zoom on multi-zoom on sectors
- One button access to read channel emulation and disk drive triggers
- Head equalization, channel Emulation, and SAM histograms
- Segmented memory for sector by sector parametric analysis
- Built-in PWxx, amplitude, pulse shape, and ACSN parametric measurements
- Customizable with MATLAB,
 Visual Basic, or Excel scripts
- 500 Mpts/s data transfer rate from oscilloscope to PC for offline analysis (optional)
- Full suite of SDA tools integrated for analysis of SAS/SATA drives
- 20 Mpts memory standard
- 8 dual integrated inputs of 50 Ω and 1 M Ω with DDA 760Zi



A Total Solution for Disk Drive Analysis

Maximum Performance

LeCroy Disk Drive Analyzers (DDA) assist data storage design engineers by integrating tools that improve the time to market of new products and accelerate understanding and failure analysis on existing drives. LeCroy continues that tradition with the DDA 7 Zi Series equipped with its powerful Disk Drive Analysis toolset. Capture, view, and analyze the wave shape of high-speed, complex drive signals with speed and integrity. Data Storage applications are memory intensive as capturing multiple sectors or a complete track of data can be important in troubleshooting a design or characterizing media. The X-Stream II architecture enables fast and accurate measurements and analysis of disk drive signals. Memory can be extended to 128 Mpts/Ch

(256 Mpts/Ch on 2 Ch) using Option L.

Both the DDA 760Zi and DDA 735Zi offer the convenience of selectable 50 Ω or 1 M Ω inputs. The standard 20 Mpts of waveform memory and 40 GS/s capture on two channels, means multiple drive sectors can be acquired at once.

Long Memory and Flexibility in Finding Problems

Acquire a head signal up to 6 GHz, and then QuickZoom it from the front panel. The DDA copies and expands the drive signal automatically. Simply scroll horizontally and vertically to examine any sector. Multiple zooms let you view up to eight separate areas of the head signal; each zoom comes in a distinct color. Disk drive parameters let you characterize the pulse width variation or signal-to-noise ratio across a region. Failure Analysis engineers can store and recall golden waveforms and panel setups to compare problem

A TOTAL SOLUTION FOR DISK DRIVE ANALYSIS

drives with the known good drives. Analog-to-digital converters running at speeds up to 40 GS/s ensure the right sensitivity to measure today's high-speed read channels. In every DDA, you can run your customer-developed scripts to view the captured signal with the filters matched to your channel and media. Custom user scripts can be created in MATLAB, Visual Basic, Excel or other formats.

Exceptional Trigger and Sequence Performance

The DDA's disk triggers allow you to set up a series of events in the signal that then cause a trigger. For example, qualify the signal on the index signal and then capture all the sectors of information on the track. As memory is increased in

the DDA, more sectors can be captured, with up to 50 picosecond/ sample time resolution. Up to 15,000 sectors of data can be gathered with the DDA 7 Zi analyzers. An optional capability, Streaming Sequence, uses the X-Stream II and the fast hardware architecture of the DDA to stream up to 300,000 segments of data to memory; all taken at a high trigger rate.

Natural Graphical Interface

One press on the DDA menu takes you directly to the Disk Drive Analyzer features. The familiar controls on the front panel, coupled with a natural, context-sensitive graphical user-interface, react quickly to your commands. Functionality is exactly where you expect it to be.

The DDA 7 Zi provides one button access to all the tools needed to accurately debug and analyze disk drive operation.

The DDA 7 Zi Features:

- 28 Custom Parameters
- Specific Drive Triggers
 - Sector
 - Servo Gate
 - Read Gate Trigger
- Advanced Drive Analysis Tools
 - Head Filter Equalizer Emulation
 - Channel Emulation
 - SAM Histograms
 - Plot of SAM Values
 - Analog Compare

Simultaneously connecting low-speed signals, like index and servo gate, and high-speed signals, like read channels has never been easier. With integrated 50 Ω and 1 M Ω inputs on all models, there is no longer a need for expensive adapters.



Vertical System	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Z (SDA, DDA)	
Analog (ProLink Input) Bandwidth @ 50 Ω (-3 dB) (≥ 10 mV/div)	Not Applicable	Not Applicable	Not Applicable	4 GHz (≥ 10 mV/div)	6 GHz (≥ 10 mV/div)	
Analog (ProBus Input) Bandwidth	1.5 GHz	2.5 GHz	3.5 GHz	3.5 GHz	3.5 GHz	
2 50 Ω (-3 dB)	(≥ 10 mV/div)	(≥ 10 mV/div)	(≥ 10 mV/div)	(≥ 10 mV/div)	(≥ 10 mV/div)	
Analog (ProBus Input) Bandwidth ② 1 MΩ (-3 dB)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)	500 MHz (Typical)	
Rise Time (Typical, 50 Ω)	235 ps	150 ps	120 ps	105 ps	70 ps	
nput Channels	4					
Bandwidth Limiters	20 MHz, 200	MHz, 1 GHz	20 MHz, 200 MHz 1 GHz, 3 GHz	20 MHz, 200 MHz 1 GHz, 3 GHz	20 MHz, 200 MHz 1 GHz, 3 GHz, 4 GH	
nput Impedance	50 Ω ±2% or 1 MΩ	16 pF, 10 MΩ 11 pF \	with supplied probe			
nput Coupling	1 MΩ: AC, DC, GND;					
Maximum Input Voltage	1 MΩ: 250	50 Ω : ±5 V _{rms} 50 Ω (ProBus): ± 1 M Ω : 250 V max. (peak AC: ≤ 10 kHz + DC) 50 Ω (ProLink): ± 1 M Ω (ProBus): 25 (peak AC: ≤ 10 kH				
Channel-Channel Isolation	≥ 100:1 at 2 GHz; ≥ 40	0:1 at 3 GHz; ≥ 20:1 at 4	4 GHz			
Vertical Resolution		rith enhanced resolution				
Sensitivity	50 Ω: 2 mV-1 V/div, fo	ully variable (2–9.99 mV	//div via zoom); 1 MΩ: 2	2 mV–10 V/div, fully vai	riable	
OC Gain Accuracy	±1.5% of full scale		.,	, ,		
Offset Range	50 Ω (ProBus Input): ±750 mV @ 10–170 mV/div ±4 V @ 172 mV/div–1 V/div 1 MΩ: (ProBus Input): ±1 V @ 2–128 mV/div ±10 V @ 130 mV–1.28 V/div ±100 V @ 1.3 V–10 V/div			50 Ω (ProLink Input): ±750 mV @ 10–118 mV/div ±4 V @ 120 mV/div–1 V/div 50 Ω (ProBus Input): ±750 mV @ 10–170 mV/div ±4 V @ 172 mV/div–1 V/div 1 M Ω : (ProBus Input): ±1 V @ 2–128 mV/div ±10 V @ 130 mV–1.28 V/div ±100 V @ 1.3 V–10 V/div		
Offset Accuracy	±(1.5% of full scale +	1.0% of offset value +	1 mV)			
Horizontal System						
		nmon to 4 input channe	els: an external clock m	ay be applied at the au	xiliary input	
		Real time: 20 ps/div–1000 s/div (RIS mode: 20 ps/div–10 ns/div; Roll mode: up to 1000 s/div)				
limebases -				mode: up to 1000 s/di	iv)	
Fimebases Fime/Division Range	Real time: 20 ps/div-1		0 ps/div-10 ns/div; Roll	mode: up to 1000 s/di	(v)	
īmebases īme/Division Range Clock Accuracy	Real time: 20 ps/div-1 ≤ 1 ppm + (aging of 0	000 s/div (RIS mode: 2	0 ps/div–10 ns/div; Roll bration)	mode: up to 1000 s/di	(v)	
imebases ime/Division Range Clock Accuracy ime Interval Accuracy	Real time: 20 ps/div−1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a	000 s/div (RIS mode: 2 .5 ppm/yr from last cali	0 ps/div–10 ns/div; Roll bration) s)	·		
imebases ime/Division Range Clock Accuracy ime Interval Accuracy itter Noise Floor	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical)	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical)	0 ps/div–10 ns/div; Roll bration)	750 fs (Typical)	560 fs (Typical)	
imebases ime/Division Range Clock Accuracy ime Interval Accuracy litter Noise Floor irigger and Interpolator Jitter	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical)	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms}	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical)	750 fs (Typical)		
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting,	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} 100 ms max., each ch	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel	750 fs (Typical)	560 fs (Typical)	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output)	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms}	0 ps/div=10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output	750 fs (Typical) 1 ps _{rms}	560 fs (Typical)	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Clock	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 s	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{ms} . 100 ms max., each ch ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance,	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi	750 fs (Typical) 1 ps _{rms} input WP740Zi	560 fs (Typical) (Typical) WP760Zi	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 Ω	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} . 100 ms max., each ch ance, applied at the real	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA)	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA)	560 fs (Typical) (Typical)	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 s WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{ms} . 100 ms max., each ch ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance,	0 ps/div-10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s	750 fs (Typical) 1 ps _{rms} input WP740Zi	560 fs (Typical) (Typical) WP760Zi	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Ditter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 § WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate)	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} .100 ms max., each ch ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance, WP725Zi (SDA)	0 ps/div=10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch	560 fs (Typical) (Typical) WP760Zi	
imebases ime/Division Range Clock Accuracy ime Interval Accuracy litter Noise Floor frigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 § WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitive	000 s/div (RIS mode: 2 .5 ppm/yr from last caliccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} .100 ms max., each chance, applied at the realance, applied at the realance, applied at the realance, applied at the seance, applied at the realance, applied at the realance applied at the realance, applied at the realance applie	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch	560 fs (Typical) (Typical) WP760Zi	
imebases ime/Division Range Clock Accuracy ime Interval Accuracy litter Noise Floor rigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 § WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitive 1,250,000 waveforms	000 s/div (RIS mode: 2 .5 ppm/yr from last cali ccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} .100 ms max., each ch ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance, WP725Zi (SDA)	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch	560 fs (Typical) (Typical) WP760Zi	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Ditter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 Ω WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitiv 1,250,000 waveforms 800 ns	000 s/div (RIS mode: 2 .5 ppm/yr from last caliccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} .100 ms max., each chance, applied at the realance, applied at the realance, applied at the realance, applied at the seance, applied at the realance, applied at the realance applied at the realance, applied at the realance applie	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch	560 fs (Typical) (Typical) WP760Zi (SDA, DDA)	
Imebases Ime/Division Range Clock Accuracy Ime Interval Accuracy Inter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 g WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitiv 1,250,000 waveforms 800 ns (4 Ch / 2 Ch)	000 s/div (RIS mode: 2 .5 ppm/yr from last calicuracy* Reading) (rms 1 ps (Typical) 2 psms 100 ms max., each chance, applied at the real ance, applied at the real ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance, WP725Zi (SDA)	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s 10 ns/div) Mode, up to 4 channels	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch	560 fs (Typical) (Typical) WP760Zi (SDA, DDA)	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Timebase Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 g WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitiv. 1,250,000 waveforms 800 ns (4 Ch / 2 Ch) 10 M / 20 M (Standard)	000 s/div (RIS mode: 2 .5 ppm/yr from last caliccuracy* Reading) (rms 1 ps (Typical) 2 ps _{rms} .100 ms max., each chance, applied at the realance, applied at the realance, applied at the realance, applied at the seance, applied at the realance, applied at the realance applied at the realance, applied at the realance applie	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s 10 ns/div) Mode, up to 4 channels	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch Number of	560 fs (Typical) (Typical) WP760Zi (SDA, DDA)	
Imebases Ime/Division Range Clock Accuracy Ime Interval Accuracy Jitter Noise Floor Irigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Timebase Reference (Output) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory S-32 – Memory Option	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 Ω WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitiv. 1,250,000 waveforms 800 ns (4 Ch / 2 Ch) 10 M / 20 M (Standard 32 M / 64 M	000 s/div (RIS mode: 2 .5 ppm/yr from last calicuracy* Reading) (rms 1 ps (Typical) 2 psms 100 ms max., each chance, applied at the real ance, applied at the real ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance, WP725Zi (SDA)	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s 10 ns/div) Mode, up to 4 channels	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch Number of / 40 M) 5000 15,000	560 fs (Typical) (Typical) WP760Zi (SDA, DDA)	
Timebases Time/Division Range Clock Accuracy Time Interval Accuracy Jitter Noise Floor Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference (Input) External Clock Acquisition System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory S-32 – Memory Option M-64 – Memory Option L-128 – Memory Option	Real time: 20 ps/div–1 ≤ 1 ppm + (aging of 0 < 0.06 / SR + (clock a 1.5 ps (Typical) 3 ps _{rms} (Typical) ±9 x time/div. setting, 10 MHz; 50 Ω impeda 10 MHz; 50 Ω impeda 0.1 Hz–100 MHz, 50 g WP715Zi 20 GS/s on 2 Ch 10 GS/s on 4 Ch (Option WPZi-1.5GHZ-4X20GS doubles the sample rate) 200 GS/s for repetitiv. 1,250,000 waveforms 800 ns (4 Ch / 2 Ch) 10 M / 20 M (Standard)	000 s/div (RIS mode: 2 .5 ppm/yr from last calicuracy* Reading) (rms 1 ps (Typical) 2 psms 100 ms max., each chance, applied at the real ance, applied at the real ance, applied at the real ance, applied at the real Ω or 1 MΩ impedance, WP725Zi (SDA)	0 ps/div–10 ns/div; Roll bration) s) 800 fs (Typical) (Typical) annel r input r output applied at the auxiliary WP735Zi (SDA, DDA) 40 GS/s 20 GS/s 10 ns/div) Mode, up to 4 channels	750 fs (Typical) 1 ps _{rms} input WP740Zi (SDA) on 2 Ch on 4 Ch Number of	560 fs (Typical) (Typical) WP760Zi (SDA, DDA)	

Acquisition Processing	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)	
Averaging	Summed averaging to	1 million sweeps; conti	nuous averaging to 1	million sweeps		
Enhanced Resolution (ERES)	From 8.5 to 11 bits vertical resolution					
Envelope (Extrema)		for up to 1 million swe	eps			
Interpolation	Linear or Sin x/x					
Triggering System						
Modes	Normal, Auto, Single,	and Stop				
Sources	Any input channel, Au	x, Aux/10, or line; slope	and level unique to e	ach source (except line	trigger)	
Coupling Mode	DC, AC, HFRej, LFRej					
Pre-trigger Delay		ize (adjustable in 1% inc				
Post-trigger Delay	·	real time mode, limited		tings or in roll mode		
Hold-off by Time or Events	From 2 ns up to 20 s	or from 1 to 99,999,999	events			
Internal Trigger Range	±4.1 div from center					
Trigger Sensitivity with	2 div @ < 1 GHz	2 div @ < 2.5 GHz		2 div @ < 3.5 GHz		
Edge Trigger (Ch 1–4) ProBus Inputs	1.5 div @ < 500 MHz	1.5 div @ < 1.25 GHz		1.5 div @ < 1.75 GHz		
	1.0 div @ < 200 MHz (for DC, AC,	1.0 div @ < 200 MHz (for DC, AC,	(for DC AC	1.0 div @ < 200 MHz , LFRej coupling, ≥ 10 m\	//div_50.0.)	
	LFRej coupling,	LFRei coupling,	(IOI DC, AC	, Li Hej coupling, 2 To m	V/UIV, 30 \$2)	
	\geq 10 mV/div, 50 Ω)	\geq 10 mV/div, 50 Ω)				
Trigger Sensitivity with				2 div @ < 4 GHz	2 div @ < 6 GHz	
Edge Trigger (Ch 1-4) ProLink Inputs				1.5 div @ < 2 GHz	1.5 div @ < 3 GHz	
		Not Applicable		1.0 div @ < 200 MHz	1.0 div @ < 200 MH	
				(for DC, AC,	(for DC, AC,	
				LFRej coupling, \geq 10 mV/div, 50 Ω)	LFRej coupling, \geq 10 mV/div, 50 Ω)	
External Trigger Sensitivity,	2 div @ < 1 GHz			≥ 10 111V/GIV, 50 \$2 }	≥ 10 111V/div, 50 \$2	
(Edge Trigger)	1.5 div @ < 500 MHz					
(2090990.)	1.0 div @ < 200 MHz					
	(for DC, AC, LFRej co	upling)				
Max. Trigger Frequency, SMART Trigger™	1.0 GHz @ ≥ 10 mV/div	2.0 GHz @ ≥ 10 mV/div	2.0 GHz @ ≥ 10 mV/div	2.0 GHz @ ≥		
	(minimum triggerable		(minimum triggerable	(minimum triggera	ble width 200 ps)	
	width 500 ps)	width 300 ps)	width 250 ps)			
External Trigger Input Range	Aux (±0.4 V); Aux/10 (±	4 V)				
Basic Triggers						
Edge		eets slope (positive, neg				
TV-Composite Video		vith selectable line and fie				
		with selectable Fields (1-		Frame Rates (25, 30, 50,	or 60 Hz), Interlacing	
Window	(1:1, 2:1, 4:1, 8:1), or Synch Pulse Slope (Positive or Negative). Trigger when signal or exits a window defined by adjustable thresholds.					
			, ,			
SMART Triggers State or Edge Qualified	Triangue and and income			d		
State of Edge Qualified		source only if a defined es is selectable by time		a on another input sour	ce.	
Qualified First		on mode, triggers repea				
		segment of the acquisi			time or events.	
Dropout	Triggers if signal drops out for longer than selected time between 1 ns and 20 s. Logic combination (AND, NAND, OR, NOR) of 5 inputs (4 channels and external trigger input).					
Pattern						
	Each source can be his Triggers at start or end	gh, low, or don't care. T	he High and Low leve	el can be selected indep	endently.	
	ringgers at start or ent	d of the pattern.				
	Triggers on positive or	negative glitches with	widths selectable as I	ow as 200 ps (dependir	ng on oscilloscope	
SMART Triggers with Exclusion T Glitch Width (Signal or Pattern)	Triggers on positive or bandwidth) to 20 s, or	on intermittent faults.				
Glitch	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n	on intermittent faults. egative or both widths				
	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n bandwidth) to 20 s, or	on intermittent faults.	with widths selectable			
Glitch Width (Signal or Pattern) Interval (Signal or Pattern)	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n bandwidth) to 20 s, or Triggers on intervals s	on intermittent faults. egative or both widths on intermittent faults.	with widths selectable and 20 s.	e as low as 200 ps (dep	ending on oscilloscop	
Glitch Width (Signal or Pattern)	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n bandwidth) to 20 s, or Triggers on intervals s Triggers on any source	on intermittent faults. egative or both widths on intermittent faults. electable between 1 ns	with widths selectable and 20 s.	e as low as 200 ps (dep	ending on oscilloscop	
Glitch Width (Signal or Pattern) Interval (Signal or Pattern)	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n bandwidth) to 20 s, or Triggers on intervals s Triggers on any source Delay between source Trigger on positive or	on intermittent faults. egative or both widths on intermittent faults. electable between 1 ns e if a given state (or trar es is 1 ns to 20 s, or 1 to negative runts defined by	with widths selectable and 20 s. nsition edge) has occu o 99,999,999 events.	e as low as 200 ps (dep	ending on oscilloscop	
Glitch Width (Signal or Pattern) Interval (Signal or Pattern) Timeout (State/Edge Qualified)	Triggers on positive or bandwidth) to 20 s, or Triggers on positive, n bandwidth) to 20 s, or Triggers on intervals s Triggers on any source Delay between source Trigger on positive or Select between 1 ns a	on intermittent faults. egative or both widths on intermittent faults. electable between 1 ns e if a given state (or trar es is 1 ns to 20 s, or 1 to negative runts defined by	with widths selectable and 20 s. nsition edge) has occu o 99,999,999 events. by two voltage limits a	e as low as 200 ps (deported on another source.	ending on oscilloscop	

High-speed Serial Protocol Triggering	WavePro 715Zi	WavePro 725Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)
Data Rates	Not available		SPT, standard with b/s–1.25 Gb/s	· · · · · · · · · · · · · · · · · · ·	HSPT, standard with Mb/s–2.7 Gb/s
Pattern Length	_			NRZ or 8b10b	
Clock and Data Outputs	_			pical), AC coupled	
Clock Recovery Jitter	_	1 ps rms + 0.3% l	, ,	RBS data patterns with	50% transition density
Hardware Clock Recovery Loop BW	-) Mb/s to 1.25 Gb/s (Ty	
Low-speed Serial Protocol Triggering (Optional)					
Available		IOP), UART-RS232, CA			
Color Waveform Display	hererence individual	datasheets for comple	te specifications.		
Туре	Color 15.3" flat panel	TFT-Active Matrix LCD	with high resolution t	ouch screen	
Resolution	WXGA; 1280 x 768 p				
Number of Traces		of 8 traces. Simultaneo	usly display channel 3	room memory and ma	ith traces
				200111, THEITIOLY and The	illi liaces.
Grid Styles Waveform Representation	Sample dots joined, o	uad, Octal, X-Y, Single-	FA-1, Dual+A-1		
·	Sample dots joined, c	or sample dots only			
Integrated Second Display	0 1 450"	TET A A	. 50 12 1	1	
Type	Color 15.3" flat panel	TFT-Active Matrix LCD	with high resolution t	ouch screen	
Resolution	WXGA; 1280 x 768 p	ixels			
LeCroy WaveStream Fast Viewing Mode					
Intensity	256 Intensity Levels,	1-100% adjustable via	front panel control		
Number of Channels	Up to 4 simultaneous	sly			
Type	Select analog or color				
Max. Sampling Rate			rt WP7i-1 5GH7-4X200	GS option)	
Persistence Aging	40 GS/s (20 GS/s for WavePro 715Zi without WPZi-1.5GHZ-4X20GS option) Select from 500 ms to Infinite				
Waveforms/Second (continuous)	Up to 2500 Waveform				
Analog Persistence Display	•				
Analog and Color-Graded Persistence	Variable saturation lev	vels; stores each trace	s persistence data in i	memory	
Persistence Types	Select analog, color, o	or three-dimensional			
Trace Selection	Activate persistence	on all or any combinati	on of traces		
Persistence Aging	Select from 500 ms t				
Sweep Display Modes	All accumulated, or a	Il accumulated with las	t trace highlighted		
High-speed Digitizer Output (Opt	tion)				
Туре	LeCroy LSIB				
Transfer Rate	Up to 250 Mpts/s (Ma	aximum)			
Output Protocol	PCI Express, Gen1 (4	lanes utilized for data	transfer)		
Control Protocol	TCP/IP				
Command Set	Via Windows Automa	ation, or via LeCroy Re	mote Command Set		
Zoom Expansion Traces					
	Display up to 4 Zoom	and 8 Math/Zoom trac	ces		
Processor/CPU					
Туре	Intel® Core™ 2 Quad, 2				
Processor Memory	2 GB standard, up to	8 GB optional 'S-32" memory, 8 GB	standard with "M-64"	' or "I -128" memory)	
Operating System		Vista® Business Edition		5. L 120 HIGHIOTY)	
Real Time Clock	Date and time display	yed with waveform and chronize to precision in	d in hardcopy files.		
Internal Waveform Memory	Sittle Support to Oying	, , , , , , , , , , , , , , , , , , ,			
		emory traces (M1–M4			
Catara Ctara	Waveforms can be st	cored to any number of	files limited only by the	ne data storage media	capacity.
Setup Storage					
Front Panel and Instrument Status	Store to the internal h	nard drive or to a USB-	connected peripheral of	device.	

Interface	WavePro 725Zi WavePro 715Zi (SDA)	WavePro 735Zi (SDA, DDA)	WavePro 740Zi (SDA)	WavePro 760Zi (SDA, DDA)		
Remote Control	Via Windows Automation, or via LeCroy	Remote Command Set				
Network Communication Standard	LXI Class C, VXI-11 and VICP					
GPIB Port (Optional)	Supports IEEE – 488.2					
_SIB Port (Optional)	Supports PCI Express Gen1 x4 protocol	with LeCroy supplied AF	기			
Ethernet Port	Supports 10/100/1000BaseT Ethernet interface (RJ45 port)					
USB Ports	Minimum 6 total (Including 3 front panel)	USB 2.0 ports support	Windows compatible of	devices		
External Monitor Port	15-pin D-Type WXGA compatible to supp support LeCroy WPZi-EXTDISP-15 additi- desktop operation with optional LeCroy of	onal touch screen displa	y accessory. Includes :			
Peripheral Bus	LeCroy LBUS standard					
Auxiliary Input						
Signal Types	Select External Trigger or External Clock	Input on the front panel				
Coupling	50 Ω: DC; 1 MΩ: AC, DC, GND	2111 50)				
Max. Input Voltage	50 Ω : 5 V _{rms} ; 1 M Ω : 250 V (Peak AC < 10	O KHz + DC)				
Auxiliary Output						
Signal Types	Select from calibrator, control signals or		•			
Calibrator Signal	500 Hz–5 MHz square wave or DC level;		2 (0–1 V into 1 MΩ)			
Control Signals	Trigger enabled, trigger out, pass/fail sta	tus				
Automatic Setup						
Auto Setup	Automatically sets timebase, trigger, and	I sensitivity to display a	wide range of repetitiv	e signals		
Find Vertical Scale	Automatically sets the vertical sensitivity with the maximum dynamic range	and offset for the selec	eted channel to display	a waveform		
General						
Auto Calibration	Ensures specified DC and timing accuracy	cy is maintained for 1 ye	ar minimum.			
Probes						
Probes	Qty. (4) ÷10 Passive Probes					
Probe System	ProBus (and ProLink on 4 and 6 GHz mod	dels). Automatically dete	cts and supports a vari	ety		
•	of compatible probes	·		,		
Scale Factors	Automatically or manually selected depe					
Calibration Output	1 kHz square wave, 1 V _{p-p} (typical), outpo	ut to probe hook				
Power Requirements						
Voltage	100-240 VAC ±10% at 50/60 Hz; 100-12	20 VAC ±10% at 400 Hz	; Automatic AC Voltage	e Selection		
Max. Power Consumption	800 W/ 800 VA					
Environmental						
Temperature (Operating)	+5 °C to +40 °C including CD-RW/DVD-F	ROM drive				
Temperature (Non-Operating)	5% to 80% relative humidity (non-conde	noing) up to : 21 °C				
Humidity (Operating)	Upper limit derates to 50% relative hum		t +40 °C			
Humidity (Non-Operating)	5% to 95% relative humidity (non-conde					
Altitude (Operating)	Up to 10,000 ft. (3048 m) at or below +2		200001			
Altitude (Non-Operating)	Up to 40,000 ft. (12,192 m)					
Random Vibration (Operating)	0.5 g _{rms} 5 Hz to 500 Hz, 15 minutes in ea	ach of three orthogonal	axes			
Random Vibration (Non-Operating)	2.4 g _{rms} 5 Hz to 500 Hz, 15 minutes in ea	ach of three orthogonal	axes as tested per MIL			
Functional Shock	20 g peak, half sine, 11 ms pulse, 3 shock total as tested per MIL-PRF-28800F	s (positive and negative)	in each of three orthogo	onal axes, 18 shocks		
Physical Dimensions						
Dimensions (HWD)	355 mm x 467 mm x 289 mm; 14" x 18.4"	x 11.4" (height excludes	feet)			
Weight Shipping Weight	18.4 kg; 40 lbs. 26.6 kg; 58 lbs.					
Certifications	 					
CEI UNICALIONS	CE Compliant, UL and cUL listed; confor	ms to FN 61326 FN 61	010-1 III 61010 2nd s	edition and		
	CSA C22.2 No. 61010-1-04	1113 (O LIN 01320, LIN 011	510-1, OL 01010 ZIIQ 6	and and		
Warranty and Service						
	3-year warranty; calibration recommende upgrades, and calibration services.	ed annually. Optional ser	vice programs include	extended warranty,		

Standard

Math Tools

Display up to 8 math function traces (F1–F8). The easy-to-use graphical interface simplifies setup of up to two operations on each function trace, and function traces can be chained together to perform math-on-math.

absolute value invert (negate)
average (summed) log (base e)
average (continuous) log (base 10)
derivative product (x)
deskew (resample) ratio (/)
difference (-) reciprocal
enhanced resolution (to 11 bits vertical) rescale (with units)

envelope roof
exp (base e) (sinx)/x
exp (base 10) square
fft (power spectrum, magnitude, phase,
up to 128 Mpts) sum (+)
floor zoom (identity)

integral

- Parameter math add, subtract, multiply, or divide two different parameters
- Narrow-band power measurements
- Auto-correlation function
- Sparse function
- Cubic and Quadratic Interpolation function

Measure Tools

Display any 12 parameters together with statistics, including their average, high, low, and standard deviations. Histicons provide a fast, dynamic view of parameters and wave shape characteristics.

level@x rms amplitude maximum std. deviation area base mean ton cycles median width data minimum median narrow band phase phase delay narrow band power time @ minimum (min.) ∆ delay number of points time @ maximum (max.) duty cycle duration +overshoot Δ time @ level falltime (90-10%, -overshoot Δ time @ level from 80-20%, @ level) trigger peak-to-peak frequency x@ max. period first x@ min. risetime (10-90%.

Pass/Fail Testing

last

Simultaneously test multiple parameters against selectable parameter limits or pre-defined masks. Pass or fail conditions can initiate actions including document to local or networked files, e-mail the image of the failure, save waveforms, send a pulse out at the front panel auxiliary BNC output, or (with the GPIB option) send a GPIB SRQ.

20-80%, @ level)

Standard

Jitter and Timing

Parametric Measurements:

- period@level width@level duty@level frequency@level
- TIE@level edge@level

Statistical Analysis:

Jitter Trend (1000 pts) • Histograms (1000 pts)

Software Options

Jitter and Timing Analysis Software Package (WPZi-JTA2)

This package provides jitter timing and analysis using time, frequency, and statistical views for common timing parameters, and also includes other useful tools. JTA2 includes:

- · Jitter and timing parameters, with "Track" graphs of
- Cycle-Cycle Jitter
 N-Cycle
 N-Cycle with start selection
 Period
 Half Period
 Skew
 Duty Cycle
 Duty Cycle Error
 Duty Cycle Error
- Frequency SetupEdge@lv parameter (counts edges)
- Histograms expanded with 19 histogram parameters and up to 2 billion events
- Trend (datalog) of up to 1 million events
- Track graphs of all parameters
- Persistence histogram, persistence trace (mean, range, sigma)

Spectrum Analyzer Mode (WPZi-SPECTRUM)

This package provides a new capability to navigate waveforms in the frequency domain using spectrum analyzer type controls.

FFT capability added to include:

- power averaging power density real and imaginary components
- frequency domain parameters FFT on up to 128 Mpts.

Disk Drive Measurements Package (WPZi-DDM2)

This package provides disk drive parameter measurements and related mathematical functions for performing disk drive WaveShape Analysis.

• Disk Drive Parameters are as follows:

amplitude assymetry local time trough-peak local base local time under threshold local baseline separation narrow band phase local maximum narrow band power local minimum overwrite local number pulse width 50 local peak-peak pulse width 50local time between events pulse width 50+ resolution local time between peaks local time between troughs track average amplitude local time at minimum track average amplitudelocal time at maximum track average amplitude+ auto-correlation s/n local time peak-trough local time over threshold non-linear transition shift

ORDERING INFORMATION

ManePro 7 Zi Series Oscilloscopes	Product Description	Product Code	Product Description	Product Code
120 GS/s and 20 Mytrs/Ch in inferienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 10 Mytrs/Ch interienced mode) with 50 Q and 1 MQ Input 12.5 GHz, 20 GS/s, 4 Ch, 20 Mytrs/Ch 50 A 7552 G	WavePro 7 Zi Series Oscilloscopes		Memory and Sample Rate Options (cont'd)	
Ido GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q and 1 Mid Input GS/s and 20 Mpts/Ch in interfeaved mode) with 50 Q	(20 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 715Zi	64 Mpts/Ch (128 Mpts/Ch Interleaved) Memory Option for WavePro 7 Zi. Includes an additional 6 GB of RAM	WPZi-M-64
48 Mpts/Ch 1128 Mpts/Ch Interleaved Memony Option SDAZH-M-64 (of OSSs and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MQ Input WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 20 Mpts/Ch in interleaved mode) WavePro 7402 (40 OSSs and 40 Mpts/Ch in interleaved mode) VavePro 7402 (40 OSSs and 40 Mpts/Ch in interleaved mode) VavePro 7402	(40 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 725Zi	for DDA 7 Zi. Includes an additional 6 GB of RAM	DDAZi-M-64
Gal QS/s and 20 Mpts/Ch in interleaved model with 50 Q and 1 MD Input 86 Bit total 86 Bit	3.5 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 735Zi	for SDA7 Zi. Includes an additional 6 GB of RAM	SDAZi-M-64
Ido CSS, and 20 Mpts;Ch in interleaved mode) with 50 Q and 1 MQ Input 8.68 total) 128 Mpts;Ch (256 Mpts	4 GHz, 20 GS/s, 4 Ch, 10 Mpts/Ch (40 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 740Zi	for WavePro 7 Zi. Includes an additional 6 GB of RAM	wPZi-L-128
SDA 72 Series Serial Data Analyzers 2.5 GHz, 20 GSs, 4 Ch, 20 Myts/Ch (40 GSs) and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 40 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in interleaved mode) with 50 Q and 1 MW2 Input 4.0 GSs and 20 Myts/Ch in the Input 4.0 GSs and 20 Myts/Ch in the Input 4.0 GSs and 20 Myts/Ch interleaved Input 4.0 GSs and 20 Myts/Ch interleaved Input 4.0 GSs and 20 Myts/Ch interleaved Input 4.0 GSs and 20 Myts/Ch interle	(40 GS/s and 20 Mpts/Ch in interleaved mode)	WavePro 760Zi	for DDA 7 Zi. Includes an additional 6 GB of RAM	n DDAZi-L-128
### Additional 20 GB Hard Drive ### Days and 1 Mg Input ### Days and 1 Mg Inpu			for SDA 7 Zi. Includes an additional 6 GB of RAM	n SDAPZi-L-128
40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 50 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 40 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 40 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 40 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/Ch in interleaved mode) with 50 2 and 1 MΩ [Input 6 GHz. 20 GS/s, 4 Ch, 20 Mpts/Ch (SS and 20 Mpts/C	(40 GS/s and 40 Mpts/Ch in interleaved mode)	SDA 725Zi	20 GS/s (40 GS/s Interleaved) Sampling Rate Wi	PZi-1.5GHZ-4X20GS
With 50 Ω and 1 MΩ Input 4 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input 6 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch 16 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch 17 Mith 50 Ω and 1 MΩ Input 18 Mith 50 Ω and 1 MΩ Input 19 Mith 50 Ω and 1 MΩ Input 10 Mith 50 Ω and 1 MΩ Inpu	(40 GS/s and 40 Mpts/Ch in interleaved mode)	SDA 735Zi	CPU, Computer and Other Hardware Options	
4 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch (40 GS/s and 40 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input 6 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch Additional 80 GB Hard Drive MVZI-400GB-RHD-02 Additional 80 GB Hard Drive MVZI-60GB-RHD-02 Additional 80 GB Hard Drive MVZI-60GB-RHD-02 WPZI-60GB-RHD-02 GPIB Option for LeCroy Oscilloscope 3.5 GHz, 20 GS/s, 4 Ch, 20 Mpts/Ch GGHs 20 GS/s and 20 Mpts/Ch in interleaved mode) with 50 Ω and 1 MΩ Input Corrections and Accessories 27 GS/s High-spased Serial Pattern Trigger Option WPZI-MSPT Total Call Call Call Call Call Call Call C				PZi-2-UPG-8GBRAM
Lipgrade from Standard Size Hard Drive WPZi-200GB-HD to 200 GB Hard Drive WPZi-200GB-HD to 200 GB Hard Drive WPZi-200GB-RHD-02 Additional 200 GB Hard Drive WPZi-200GB-RHD-02 GPIB-2 WPZi-200GB-RHD-02 WPZi-200GB-RHD-02 GPIB-2 WPZi-200GB-RHD-02 WPZi-200GB-RHD-02 Additional 200 GB Hard Drive WPZi-200GB-RHD-02 WPZi-HSPT WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-HSPT WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-HSPT WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400GB-RHD-02 WPZi-400B-RD-02 WPZi-400B-RD-02 WPZi-400B-RD-02 WPZi-400B-RD-02 WPZi-400B-RD-02 WPZi-400B-RD-02 WPZi-400B-RD-02		SDA 740Zi		
Additional 200 GB Hard Dirive WPZ-BUGBE-RHI-Du2 Additional 200 GB Hard Dirive WPZ-BUGBE-RHI-Du2 GPIB Option for LeCroy Oscilloscope GPIB-2	with 50 Ω and 1 M Ω Input	CD 4 7007	Upgrade from Standard Size Hard Drive	
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(4 GB total)		SDAZi-S-32		
				VVFZI-ETEDN-EQ

ORDERING INFORMATION

Product Description	Product Code	Product Description Pr	oduct Code
High-speed Digitizer Output		Probes and Probe Accessories	
High-speed PCle Gen1 x4 Digitizer Output	LSIB-1	2.5 GHz, 0.7 pF Active Probe (÷10), Small Form Factor	HFP2500
PCI Express X4 Host Interface Board for Desktop PC	LSIB-HOSTBOARD	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	ZS1500
PCI Express X4 Express Card Host Interface for Laptop Express Card Slot	LSIB-HOSTCARD	Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 M Ω ZS High Impedance Active Probe	1500-QUADPAK
PCI Express X4 3-meter Cable with X4 Cable	LSIB-CABLE-3M	WaveLink 7.5 GHz, Differential Probe Adjustable Tip Module	D600A-AT*
Connectors Included PCI Express X4 7-meter Cable with X4 Cable	LSIB-CABLE-7M	WaveLink 3.5 GHz, ±2.5 V _{P-P} Differential Probe Small Tip Module	D310*
Connectors Included		WaveLink 3.5 GHz, ±5 V _{p-p} Differential Probe Small Tip Module	D320*
Mixed Signal Testing Options		WaveLink 6 GHz, ±2.5 V _{p-p} Differential Probe	D610*
500 MHz, 2 GS/s, 18 Ch, 50 Mpts/Ch Mixed Signal Oscilloscope Option	MS-500	Small Tip Module	
250 MHz, 1 GS/s, 36 Ch, 25 Mpts/Ch (500 MHz, 18 Ch, 2 GS/s, 50 Mpts/Ch Interleaved)	MS-500-36	WaveLink 6 GHz, ±5 V _{p-p} Differential Probe Small Tip Module	D620*
Mixed Signal Oscilloscope Option		WaveLink 6 GHz, Differential Positioner Mounted Tip Modul	e D500PT*
250 MHz, 1 GS/s, 18 Ch, 10 Mpts/Ch	MS-250	WaveLink ProLink Probe Body	WL-PLink
Mixed Signal Oscilloscope Option		WaveLink ProBus Probe Body	WL-PBus
		7.5 GHz Low Capacitance Passive Probe (÷10, 1 kΩ; ÷20, 5	00 Ω) PP066
General Purpose and Application Specific		1 GHz, Active Differential Probe (÷1, ÷10, ÷20)	AP034
Software Options		Optical-to-Electrical Converter, 500–870 nm ProLink	OE525
Advanced Customization Software Package	WPZi-XDEV	BMA Connector	
Spectrum Analyzer and Advanced FFT Option	WPZi-SPECTRUM	Optical-to-Electrical Converter, 950–1630 nm ProLink	OE555
EMC Pulse Parameter Software Package	WPZi-EMC	BMA Connector	
Serial Data Mask Software Package (Standard on SDA 7 Zi and DDA 7 Zi)	WPZi-SDM	10/100/1000Base-T Compliance Test Fixture Telecom Adapter Kit 100 Ω Bal., 120 Ω Bal., 75 Ω Unbal.	TF-ENET-B [†] TF-ET
Advanced Optical Recording Measurement Package	WPZi-AORM	SATA Gen1/Gen2 Compliance Test Fixture	TF-SATA
Demodulation Software Package	WPZi-DMOD	USB 2.0 Testing Compliance Test Fixture	TF-USB-B
Jitter Timing and Analysis Software Package (Standard on SDA7 Zi and DDA 7 Zi)	WPZi-JTA2	* For a complete probe, order a W-PLink or WL-PBus Probe Body with the Probe Tip Module	
Digital Filter Software Package	WPZi-DFP2		
Disk Drive Measurements Software Package (Standard on DDA 7 Zi)	WPZi-DDM2	[†] Includes ENET-2CAB-SMA018 and ENET-2ADA-BNCSMA	
Electrical Telecom Mask Test Software Package	WPZi-ET-PMT	A variety of other active voltage and current probes are al Consult LeCroy for more information.	so available.
General Accessories			
Top-mounted, Fully Integrated 15.3" WXGA with Touch Screen Display, Including all Cabling and Softwa	WPZi-EXTDISP-15	Customer Service LeCroy oscilloscopes and probes are designed, built, and	tested to
Keyboard, USB	KYBD-1	ensure high reliability. In the unlikely event you experience	
Probe Deskew and Calibration Test Fixture	TF-DSQ	our digital oscilloscopes are fully warranted for three years	
Hard Carrying Case	WPZi-HARDCASE	probes are warranted for one year.	
Soft Carrying Case	WPZi-SOFTCASE	This warranty includes:	
Rackmount Accessory for Converting a Zi Series Oscilloscope to an 8U Rack-mounted Package	RACKMOUNT-1	No charge for return shipping	
	I DA CNAA A	 Long-term 7-year support 	
ProLink to SMA Adapter	LPA-SMA-A	a Unarrada ta lataat aaftuura at na aharra	

LPA-SMA-KIT-A

OC1024

OC1021



Oscilloscope Cart

Kit of ProLink to SMA Adapters

Oscilloscope Cart with Additional Shelf and Drawer

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