



Teledyne LeCroy is a leading provider of oscilloscopes and related test and measurement solutions. Teledyne LeCroy's oscilloscopes offer a powerful combination of large and informative displays combined with advanced waveshape analysis capabilities - typically tailored to enhance the productivity of engineers in specific applications areas such as serial data test, disk drive test and automotive bus analysis.

Teledyne LeCroy's T&M Products include

- WaveAce/WaveJet – Low bandwidth Oscilloscopes, up to 500 MHz
- WaveSurfer 3000 – Mid range, high performance Oscilloscopes, up to 1GHz
- HDO4000/6000 – High Definition Oscilloscopes with true 12-bit ADC , up to 1GHz
- HDO8000 – Industry's only 8-Channel, 12-bit Oscilloscope, up to 1GHz
- WaveRunner 8000 – Oscilloscopes with widest range of analysis tools, up to 4GHz
- HDO9000 – 10-bit High Resolution Oscilloscopes, up to 4GHz
- WaveMaster/ LabMaster – High Bandwidth Real time Oscilloscopes, up to 100GHz
- PERT – Protocol Aware BERT tester for Serial data standards



## EXOSTIV LABS



Exostiv Labs designs innovative solutions for FPGA debugging. EXOSTIV IP uses the MGTs (Multi-Gigabit Transceivers) to flow captured data out of the FPGA to an external memory. EXOSTIV IP supports repeating captures of up to 32,768 internal nodes simultaneously at the FPGA's speed of operation (16 data sets x 2,048 bits\*).

EXOSTIV IP provides dynamic multiplexer controls to capture even more data sets without the need to recompile. Dynamic ON/OFF controls of data sets let you select the data set and preserve the MGT's bandwidth for when deeper captures of a reduced set of data is required.

Unlike traditional embedded instruments, the whole debug trace must not be stored inside the FPGA memory. EXOSTIV's flexible IP structure lets you reach FPGA nodes during long operating times while preserving the memory resources.

## PLUNIFY

Get better results without modifying your design. InTime has built-in intelligence to analyze an FPGA design and determine optimized strategies for synthesis and place-and-route, delivering better results.

As a plugin to existing FPGA tools, it harnesses unused compute power to run builds and actively learns from build results to improve over time.



## SpectraTronix

ENGINEERING SIGNALS ... BONDING THE GLOBE

The C700 is a Modular Development & Verification platform designed specifically to bring about speed and flexibility to FPGA & System Designers. Allowing you to test your RF design without draining your time & resources integrating and troubleshooting RF boards. Focus on your design code while the C700 Platform takes care of Synchronization, LO Control, data communication and all other ancillary functions.

Different modules are available to represent the different functions and subsystems usually found in modern wireless designs – Vector Signal Modulation, Vector Signal DeModulation, Coherent LO Generation , ARM On-Board Processing, FPGA On-Board Processing ,Intel x86 On-Board Processing ,Embedded Micro Controller Modules, etc.



Active Technologies delivers the industry's best signal stimulus solution by using disruptive and innovative DACs technology design. This allows an easy generation of very complex signals, combined with controllable jitter, noise and other signal impairments.

Active Technologies' products include

- Pulse Generators  
New revolutionary PulseRider™ Series for <70ps Pulse generation
- Arbitrary waveform generators (>1 GHz Bandwidth, 2.5 GS/S)
- Logic Analyzers
- Digital Pattern Generators



Aragon photonics is a leading provider of High Resolution Optical Spectrum analyzers. Its BOSA400 OSA is one of the industry's highest performance OSAs with maximum efficiency, high quality acquisition and maximum wave length accuracy.

- 20 nm/s measurement speed
- 10 MHz pure optical resolution
- >80 dB spurious-free dynamic range
- Up to 0.5 pm wavelength accuracy



Micram's objective is to create the highest performing SiGe devices for communications and test & measurement applications. Micram's product profile includes

- VEGA Digital to Analog Converters (up to 100 GS/S), 35GHz Analog Bandwidth
- ADC Board Systems (up to 68 GS/S)
- High performance RF Modules such as
  - Clock Dividers/ Distributors up to 36 GHz
  - Clock Phase Shifter
  - Clock Data Recovery/ DeMux
  - 60 GHz Frequency Divider
  - 60 GHz Flip Flops
  - Measurement Amplifier
  - 80 GBps 2:1 MUX



SmarTest is committed to provide the best test solutions to resolve the challenges off today's high-speed optical communication and electrical serial data links. SmarTest suite of products includes 14.5/29 Gbps multiple channel PRBS Generators, Multiple channel Bit Error Rate Testers (BERT) up to 14.5 Gbps. SmarTest products are widely used in the Optical Communication design and test.



#### Other products

- Clock /Data Phase Shifters (up to 50GHz)
- High Speed Clock Processors (up to 28 Gbps)
- High Speed Logic family (up to 50GHz)
- High speed Serializers and De-serializers
- Adapters
- Attenuators
- Cable Assemblies and Connectors
- Phase Adjusters
- Terminations
- Optical Spectrum Analyzers
- Tunable LASER sources
- Programmable Optical Filters

Designed to meet the needs of "Ethernet Everywhere" and the infrastructure behind the Internet of Things, the Axtrinet APG Ethernet Packet Generators provides compact and affordable 40Gbps and 10Gbps Ethernet Packet Generator/Analysers with a simple-to-use Graphical User Interface and an open TCL API for third party scripting. Ideally suited to applications in R&D, Test and Manufacturing environments, the Axtrinet APG Ethernet Packet Generators allow reliable and affordable development and testing of:



- Ethernet network equipment such as switches, routers, firewalls and network monitoring devices
- Specialist devices such as FPGA accelerator NIC cards and offload appliances
- Ethernet infrastructure installations encompassing cabling and switches



ByteParadigm provides software-controlled instruments to generate digital inputs and analyze serial protocols.

The products include

- Multi Function Digital Pattern Generator
- USB Logic Analyser
- I2C/ SPI Bus analyzer
- SPI Host adapter



BQR is a world leader in Reliability Maintenance and EDA support tools. BQR offers software tools that enhance, improve and optimize Engineering processes in order to save costs and bring better, more robust products to the market. BQR software also enables the creation of systems that are easier to operate and maintain

fiXtress is a comprehensive Design for Reliability (DfR) suite comprising three software tools that accelerate and optimize the design process. fiXtress is the only tool that integrates design error detection with stress, thermal and service life prediction on the schematic-level, before PCB layout.



CARE® comprises an integrated set of software tools, offering engineers a complete solution for all RAMS (Reliability, Maintainability, Availability and Safety) aspects of a product. CARE analyzes various components failures and their impact on system operational behavior and safety, while taking into account redundancy and backup elements. Unlike other tools, CARE provides all reliability analysis in one integrated platform – including traditional Mil-Std, ISO 9000, EN and IEC standards methods and advanced RAMS & ILS analysis techniques. The use of BQR CARE improves and enhances product reliability and robustness.

BQR's apmOptimizer is a unique maintenance optimization tool that enables engineers to model the existing asset maintenance concept and run an optimization process that recommends new cost saving maintenance policies

