

# LXI

## MEMBER COMPANIES

Acery Technologies Co. Ltd.	Keithley Instruments, Inc.	Tabor Electronics Ltd.
Aeroflex, Inc.	Kepco, Inc.	TDK-Lambda Americas Inc.
AMETEK Programmable Power	Keysight Technologies	TEGAM
Anritsu Company	Kikusui Electronics Corporation	Tektronix
Astronics Test Systems	LXinstruments GmbH	Teledyne LeCroy
Beijing Control Industrial Computer Corporation	Magna-Power Electronics Inc.	Teradyne
Bruel & Kjaer S & V	MathWorks	Test Inspire B.V.
Bustec Ltd.	Matsusada Precision Inc.	TSE Plazotta
Chiyoda Electronics Co.,Ltd.	Maury Microwave Corporation	TTi Ltd.
Chroma ATE Inc.	Meinberg Funkhren GmbH & Co. KG	Universal Switching Corporation
Chyng Hong Electronic Co., Ltd.	National Instruments Corporation	VTI Instruments Corporation
Circuit Assembly Corp.	NF Corporation	Wheelwright Enterprises
Data Translation	NPP MERA	Yokogawa Meters & Instruments Corp.
Giga-tronics	Pacific Power Source	
GOEPEL Electronic GmbH	Pickering	
Good Will Instrument Co., Ltd.	Picotest Corp.	
Harbin Institute of Technology	Rigol	
Hitech Group International, Ltd	Rohde & Schwarz	
Holding Informtest	Spectran LLC	
JDS Uniphase Corporation	Spectrum Systementwicklung Microelectronic GmbH	

# LXI

## COMPLIANT PRODUCT CATEGORIES

AC/DC POWER SUPPLIES	ELECTRONIC LOAD	LXI EVENT DETECTOR	POWER METER	SOUND AND VIBRATION
AMPLIFIER	EMI RECEIVER	LXI TRIGGER	POWER SUPPLY MONITORS	SOURCE MEASURE UNIT
ATTENUATION CONTROL UNITS	FREQUENCY COUNTER	LXI-PXI CONTROLLER	SCANNING / MEASURING SYSTEM	SOURCE/MEASURE SWITCH
AUDIO ANALYZER	FUNCTION / AWG	MEZANINE CARRIER	SI-DOWN CONVERTER	SPECTRUM ANALYZER
BASEBAND GENERATOR	FUNCTION CARD CARRIER	MICROWAVE TUNER	SI - FUNCTION / AWG	SWITCH
CAPACITANCE METER	IMPEDANCE ANALYZER	MULTIFUNCTION MAINFRAMES	SI - 1 F DIGITIZER	SYSTEM SOURCE METER
DATA ACQUISITION	INTERFACE MODULE	MULTIPLE APP PLATFORM	SI - UPCONVERTER	SYSTEM SWITCH / DMM
DIGITIZER	JTAG/BOUNDARY SCAN	NETWORK ANALYZER	SIGNAL ANALYZER	THERMOCOUPLE INSTRUMENT
DMM	LCR METER	OPTICAL POWER METER	SIGNAL GENERATORS	WIRELESS COMM TESTER
DRAWER FIXTURE	LXI BRIDGE	OSCILLOSCOPES	SIGNAL SOURCE ANALYZER	



USE THE CONNECTION YOU ALREADY KNOW



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# LXI IS THE LAN STANDARD FOR TEST AND MEASUREMENT

*Every serious test interface makes bold claims about flexibility, scalability and performance—but only one extends the cost-effective power of LAN.*

LXI is the robust system backbone for today and tomorrow, and it lets you easily connect the system you need: big or small, local or remote. Thousands of instruments have passed LXI conformance testing, and every one of them lets you use the connection you already know.

If you are designing new test systems or are upgrading an existing test system—consider LXI based instruments in your test plan.



Learn more at [www.lxistandard.org](http://www.lxistandard.org) where you will find more information about the benefits of LXI, what instruments are available, and all the latest news!

## 1 EASILY CONNECT THE SYSTEM YOU NEED

LXI instruments use an intuitive Web interface making it fast and easy to connect and configure.

You can simply open the instrument home page in any browser. The speed and simplicity of LXI works seamlessly in hybrid systems with test interfaces that include GPIB, VXI and PXI instruments. And, it's easy to set up a simple local connection or use the corporate LAN with any type of Ethernet connection (100 Mb, 1Gb) and WLAN. You can go beyond the core standard with LXI Extended Functions on select instruments and achieve greater performance with hardware and LAN-based triggering and synchronization.

Trigger and synchronize with LXI LAN Events—peer-to-peer or multicast—without a controller.

Synchronize local and remote instruments with the IEEE 1588 precision time protocol.

Be ready for the future with IPv6 support.

## 2 SIMPLIFY INTEGRATION AND SUPPORT OF COMPLEX A.T.E SYSTEMS

It is simple to set up, configure and debug test systems because LXI instruments utilize the familiar LAN infrastructure.

LXI's soft front panel provides a convenient configuration and control tool to simplify system debug. Rigorous conformance testing provides guaranteed multi-vendor interoperability. Connect with confidence and focus on your application.

Leverage your existing hardware and software expertise into LXI-based systems as LXI is designed to work with your present test systems.

Migrate your systems to the speed, simplicity and reach of LAN.

Reduce test times with enhanced triggering that minimizes interaction with the host controller

## 3 ASSEMBLE SMALL MEASUREMENT SYSTEMS QUICKLY AND EASILY

LXI is not just for complex systems. You can simplify instrument connections using any type of Ethernet connection (100 Mb, 1Gb) including WLAN right from your PC.

LXI instruments include an intuitive Web interface for connecting and controlling, or you can use your preferred programming tools.

Configure an LXI instrument by opening its home page in your browser—no drivers required.

Use your existing instruments alongside LXI devices—seamlessly and reliably.

Look for the logo: your current instruments may already deliver the benefits of LXI.

## 4 UTILIZE PROVEN TOOLS AND METHODS FROM THE I.T WORLD

LXI uses readily available, low-cost networking infrastructure and equipment.

You can depend on familiar capabilities such as DNS and DHCP. LXI-compliant devices are good citizens with consistent behavior letting you connect with confidence.

Rely on automatic discovery to accurately identify LXI instruments on any network or subnet.

Isolate test systems from your intranet and the Internet.

Secure instruments with the proven methods and applications you're using today.

## 5 PRESERVE AND ENHANCE YOUR INVESTMENT IN TEST

Needs change and the LXI standard will change with you. LAN as the backbone lets you maximize system longevity and provides built-in future proofing with the stability, ongoing enhancements, evolution and backward compatibility of Ethernet.

There is no limit to the number of LXI devices you can access, and it is simple to support remote systems. You can leverage existing test hardware, system software and networking assets into LXI-based systems and evolve your strategy by replacing obsolete instruments with equivalent LXI devices.

Maximize system longevity with the stability and ongoing enhancements of LAN.

Tap into your team's understanding of LAN technology.

Utilize the standard Ethernet or Wi-Fi connections built into every PC.