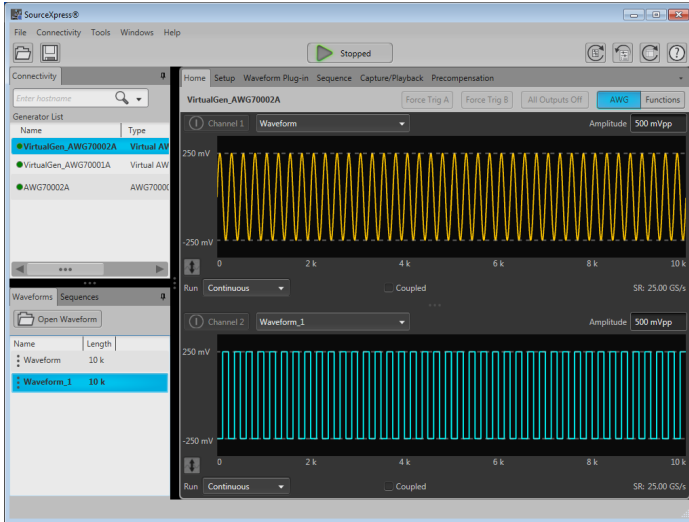


# Waveform Creation and Instrument Control Environment for PC

## SourceXpress® Datasheet



SourceXpress is a PC based software environment that enables Tektronix waveform creation modules, instrument control and simulates the native environment of the Tektronix AWG70000A series. SourceXpress allows you to create signals anywhere and not be tied to a signal generator. When you're ready connection brings a uniform look and feel to waveform creation while enabling an ever growing library of waveform creation modules.

### Key features

- PC-based instrument control that simulates the AWG70000A Series interface
- Free up instruments to create waveforms offline
- Use your Windows tablet or your powerful PC workstation
  - Windows 7 (64 bit), Windows 8 (64 bit), and Windows 10 (64 Bit) operating systems supported
- Single, Consistent UI: Customer only needs to learn one interface to control multiple instruments. This UI will be standard for future instruments as well. Customer will have a single platform for instrument control and waveform generation for all their Tek sources.
- Multi-Instrument Control: Customers who have large racks of instruments or multi-instrument setups will have a single interface to control and feed all of their signal sources.
- Stay on the cutting edge of Tek: SourceXpress plug-ins provide quicker access to new signal generation capabilities, standards, and functionality.
- Work Seamlessly and Remotely with your Signal Generator: Develop offline waveforms with the same UI that is used on the AWG70000A

Series generators. Easily fine tune or change the waveform out of the lab and then apply those changes when the signal generator is available.

### Virtual generators

You can create as many virtual instruments you like, each with different configurations. Use the Connectivity > Connect to Virtual Generator... menu. When connected to a virtual instrument, you can create all your waveforms or sequences, create setups specific to instrument types, all in the absence of an instrument. Then when an instrument is available, you can simply recall your saved files.

### Connect to instruments

With SourceXpress installed on a networked PC, SourceXpress can remotely connect and control any AWG70000A instrument on the network. The interface of the AWG70000A instrument is displayed in the SourceXpress application window, providing you access to all instrument controls, directly from SourceXpress.

### Quick instrument search and connect

The connectivity tab provides a window for you to directly enter the computer name (hostname) or IP address of a networked instrument you wish to connect to. You can obtain the correct hostname, go to the target instrument, select Computer > Properties and note the computer name.

This method bypasses the search mechanism found in the Connectivity > Connect to Instrument... menu.

### Selecting the active generator

From the Connectivity tab, you select which instrument you want to access, regardless if it's a virtual generator or a connected instrument. Making the generator active brings its display into view.

### File types supported

SourceXpress supports the same file types as the Tektronix AWG70000A Series instruments.

File format	Description
.AWGX <sup>1</sup>	Setup file created by Tektronix AWG70000A Series instruments or SourceXpress. Setup files can contain multiple waveforms and multiple sequences.
.WFMX <sup>1</sup>	Waveform file created by Tektronix AWG70000A Series instruments.

File format	Description
.AWG <sup>1</sup>	Setup file created by Tektronix AWG5000 or AWG7000 Series instruments.
.WFM <sup>1</sup>	Waveform file created by Tektronix AWG400/500/600/700/5000/7000 Series Instruments. Waveform file captured by Tektronix TDS/DPO/MSO/DSA Series instruments
.ISF <sup>1</sup>	Waveform file captured by Tektronix TDS/DPO/MSO/DSA Series instruments.
.PAT <sup>1</sup>	Waveform file created Tektronix AWG400/500/600/700 Series instruments.
.IQT <sup>1</sup>	Waveform file captured by Tektronix RSA3000 Series instruments.
.TIQ <sup>1</sup>	Waveform file captured by Tektronix RSA6000/5000, SPECMON, MDO4000 Series instruments or by SignalVu-PC.
.TFW <sup>1</sup>	Waveform file created by Tektronix AFG3000 Series Instruments.
.TXT <sup>1</sup>	ASCII file created by Tektronix AWG5000 or AWG7000 Series instruments. If using Excel, use .csv files by first changing the file extension to .txt. (The batch file load uses .csv files directly.)
.RFD <sup>1</sup>	Waveform file created by Tektronix RFX100 RFXpress Advanced RF/IF/IQ waveform software.

File format	Description
.SXD <sup>1</sup>	Waveform file created by Tektronix SDX100 SerialXpress high-speed serial data signals software.
.MAT	Matlab file type, Level 5 or Level 7.3. (Must conform to Tektronix file format.)
.TMP	Midas BLUE file type. (Must conform to Tektronix file format.)
.PRM	Midas BLUE file type. (Must conform to Tektronix file format.)
.SEQX <sup>1</sup>	Sequence file created by Tektronix AWG70000A Series instruments.
.SEQ <sup>1</sup>	Sequence file created by Tektronix AWG400, AWG500, or AWG600 Series instruments.

### Suggested requirements

- Intel® Pentium® 4 or AMD Athlon® 64 processor (2 GHz or faster)
- Windows 7 SP1 (64 bit) , Windows 8 (64 bit) , Windows 8.1 (64 bit) , Windows 10 (64 bit)
- 4 GB of RAM minimum, 8 G of RAM recommended
- 5 GB of available hard-disk space, 10 GB recommended (exact space depends on number of waveforms and size)
- 1366x768 display (1920x1080 recommended)
- OpenGL® 2.0, 32-bit color, and 1 GB of VRAM

<sup>1</sup> Proprietary Tektronix file format.

## Ordering information

SourceXpress is a free application available for download at [www.tektronix.com/downloads](http://www.tektronix.com/downloads).

Application plug-ins are available for purchase to enhance the capabilities of SourceXpress.

Information on SourceXpress and available Plug-Ins are available at <http://www.tek.com/sourceexpress>

## Plug-in licensing and activation

Optional plug-in applications to SourceXpress require the purchase of a license before they are fully functional. Each optional plug-in requires its own license. Licenses are managed within the Tektronix Asset Management System (Tek AMS). The Tek AMS web site address is [www.tektronix.com/products/product-license](http://www.tektronix.com/products/product-license). Product license management requires a login account.

There are two types of licenses available for plug-in applications: node-locked (NL) and floating (FL).

- Node Locked Licenses provide your own copy of the application on your instrument or personal computer and are permanently assigned to a specific Hostid or product model/serial number.
- Floating licenses can be moved between different Hostids or product models.

Use the Tektronix Asset Management system to check in and check out floating licenses.

## Certifications



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

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**For Further Information.** Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit [www.tek.com](http://www.tek.com).

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