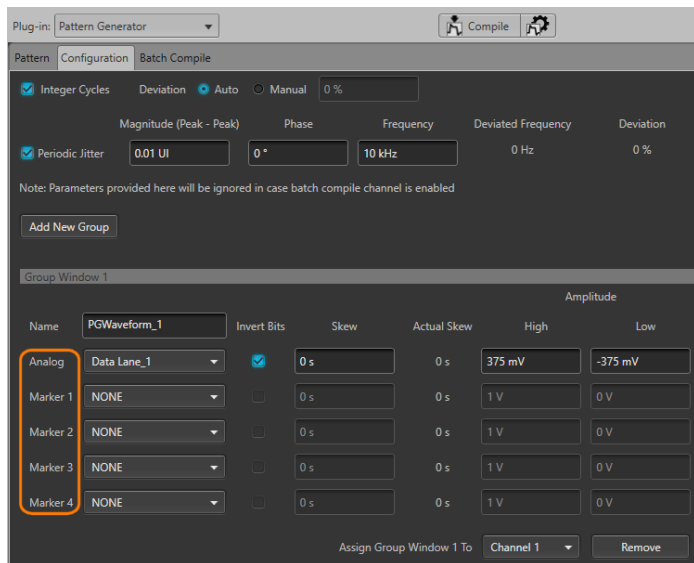


### Leverage analog and digital outputs

LVDS applications often require a large number of outputs, with over 5 differential pairs being the norm. The AWG5200 has both Analog and Digital outputs, for a total of 40 outputs on a fully configured instrument. With the Pattern Generator plug-in, users can utilize each of these outputs by assigning bit sequences to both analog and digital outputs.

Within a few minutes, configure up to 20 differential outputs on your AWG for high-channel-count testing.

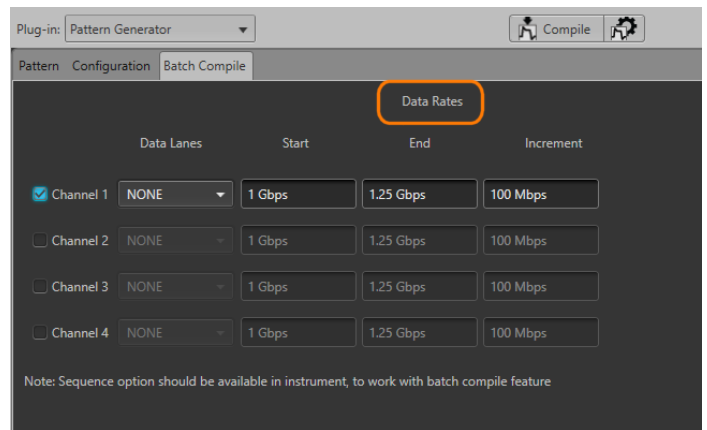


### Easily conduct signal margin testing

After importing a data sequence, the Pattern Generator plug-in allows for receiver margin testing.

In the Batch Compile tab, users can select data-rates for margin testing. By selecting a low and high data rate, and by specifying the step increment, the plug-in creates a sequence of waveforms that run your digital pattern through a stepped range of data rates.

When Batch Compile is disabled, margin testing with skew, jitter, amplitude, and offset adjustments are achieved with signal parameter selections in the configuration tab. In the configuration tab, you can also adjust the amplitude, as well as add skew and periodic jitter. Offset can be adjusted in the AWG after signals are assigned to a given output on the instrument.



### Requirements

- Plug-in installed with SourceXpress on PC:
  - SourceXpress software version 6.1 or greater
  - PC operating systems: Windows 7 (64 bit), Windows 8 (64 bit), Windows 10 (64 bit)
- Plug-in installed on compatible instruments:
  - AWG70000 Series, firmware version 6.1 or greater
  - AWG5200 Series, firmware version 6.1 or greater

## Ordering information

### How to Purchase

The Pattern Generator plug-in is available to download for free. You can download from the [SourceXpress website](#). Visit the Tektronix website to request more information or contact your nearest sales representative.

### Additional information

This and other plug-ins are available for SourceXpress and compatible waveform generators.

Use the following website links to view available application plug-ins, downloads, and trial licenses.

- [SourceXpress website](#)
- [AWG70000 Series website](#)
- [AWG5200 Series website](#)

### 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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