

M8121A

Streaming 12 GSa/s Arbitrary Waveform Generator

Release V2.0

Released Date:	December 20, 2019
Operating System:	Microsoft Windows 10 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 7 (64 bit)
File Name:	M8121_Setup.exe

New Functionality

- Channel synchronization: This occurs automatically upon arming of the output unless no changes to sample frequency or mode are made. A trigger signal (either software or hardware) initiates playback.
- Deterministic latency calibration with the M8131A: This performs a calibration to measure and optionally adjust the delay from analog input to the M8131A to the analog output of the M8121A.

Issues Fixed

- Module always shows up as in slot 1, chassis 1.
- Waveform download speed has been improved.

Known Issues

- The -DUC license option is not available in Ver 2.0. Please contact Keysight for more information.
- When working with an ODI source that utilizes flow control such as the PXI-based RAID system, certain guidelines should be followed.
 - When starting Triggered playback from the ODI source, follow these steps:
 - The M8121A must be stopped, then armed, and then stopped and armed again. (This is to work around a known issue.)
 - Start playback from the ODI source.
 - Monitor the ODI bytes received by the M8121A until it has stopped accumulating (the SCPI query is :ODI:PORT[N]:PStatistics:Rbyt? – poll no faster than once per second). This indicates that data has filled the buffer of the M8121A and will play out as soon as the trigger is received.
 - Issue trigger.
 - When starting playback in Continuous mode:
 - The M8121A must be stopped, then started, and then stopped and started again. (This is to work around a known issue.)
 - Start playback from the ODI source.
 - Make sure the waveform from the ODI source has stopped before stopping playback on the M8121A. If the ODI source stops after the M8121A has been stopped, there could be remnants of the waveform played back at the start of the next run. If this occurs, start over and follow the instructions above.
 - Between playing different waveforms from the ODI source, stop the M8121A and follow the instructions above.

Release V1.2

Released Date:	August 1, 2019
Operating System:	Microsoft Windows 10 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 7 (64 bit)
File Name:	M8121_Setup.exe

Issues fixed

- Downgrade from Ver 2.0 (and later) would cause a software error and skip the FPGA programming step.

Release V1.1

Released Date:	March 22, 2019
Operating System:	Microsoft Windows 10 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 7 (64 bit)
File Name:	M8121_Setup.exe

New Functionality

- Enables additional testing in manufacturing. No impact to end customers.

Release V1.0

Released Date:	January 31, 2019
Operating System:	Microsoft Windows 10 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 7 (64 bit)
File Name:	M8121_Setup.exe

Initial Release