

Keysight M809256PB OIF CEI-56G Pre-Compliance Rx Test Automation Application

This document contains latest information on the Keysight M809256PB OIF CEI-56G Pre-Compliance Rx Test Automation Application.

Related Document

For detailed information, refer to the following document for this application:

- "M809256PB_App_MOI.pdf"
- "M809256PB_App_Help.chm"
- "M809256PB_App_Remote_Prog_Ref.pdf"
- "M809256PB_App_Remote_Prog_Ref.chm"

This document can be found at the following location after you install the application:

C:\Program Files\Keysight\M8070B\Apps\M809256PB\help

OIF CEI-56G Pre-Compliance Rx Test Automation Application

Release V1.50.10.0

Released Date:	May 13, 2021
Operating System:	Microsoft Windows 7 (64 bit) SP1, Microsoft Windows 8 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 10 (64 bit)
Display resolution:	Minimum requirement WXGA+ (1440 x 900)
Software Pre-requisites:	M8040A BERT with M8070B system software ver. 7.5 86100D/N1000A DCA-X with N1010A FlexDCA version A.06.03 Keysight IO Library Suite Rev. 18.1 or above M8070ADVB Advanced Measurement Package (Ver. 1.1.550.2 or later) for M8000 Series M8195A soft front panel Ver. 3.6 or M8196A soft front panel Ver. 2.1 Microsoft Office 2010 or higher MATLAB Compiler Runtime R2017a (9.2)
Application Requirements:	M809256PB-1xx OIF-CEI 56G-VSR/-MR/-LR Rx pre-compliance app (node-locked, transportable, floating or USB license)
File Name:	SetupM80RxOIFCEI01500010.exe

Fixed defects

DTA-212 Broadband noise calibration with crest factor >5

Release V1.50.6.0

Released Date:	February 11, 2020
Operating System:	Microsoft Windows 7 (64 bit) SP1, Microsoft Windows 8 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 10 (64 bit)
Display resolution:	Minimum requirement WXGA+ (1440 x 900)
Software Pre-requisites:	M8040A BERT with M8070B system software ver. 6.5.0.0 or later 86100D/N1000A DCA-X with N1010A FlexDCA version A.06.03 or later Keysight IO Library Suite Rev. 18.1 or above M8070ADVB Advanced Measurement Package (Ver. 1.1.550.2 or later) for M8000 Series M8195A soft front panel Ver. 3.6 or M8196A soft front

	panel Ver. 2.1 Microsoft Office 2010 or higher MATLAB Compiler Runtime R2017a (9.2)
Application Requirements:	M809256PB-1xx OIF-CEI 56G-VSR/-MR/-LR Rx pre-compliance app (node-locked, transportable, floating or USB license)
File Name:	SetupM80RxOIFCEI01500006.exe

Fixed defects

580729 VSR/MR/LR tests abort in case M8046A A64 license is present but not A32.

580730 Broadband noise calibration doesn't work with channel 2/3/4 of M8054A.

Release V1.50.0.0

Released Date:	December 9, 2019
Operating System:	Microsoft Windows 7 (64 bit) SP1, Microsoft Windows 8 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 10 (64 bit)
Display resolution:	Minimum requirement WXGA+ (1440 x 900)
Software Pre-requisites:	M8040A BERT with M8070B system software ver. 6.5.0.0 or later 86100D/N1000A DCA-X with N1010A FlexDCA version A.06.03 or later Keysight IO Library Suite Rev. 18.1 or above M8070ADVB Advanced Measurement Package (Ver. 1.1.550.2 or later) for M8000 Series M8195A soft front panel Ver. 3.6 or M8196A soft front panel Ver. 2.1 Microsoft Office 2010 or higher MATLAB Compiler Runtime R2017a (9.2)
Application Requirements:	M809256PB-1xx OIF-CEI 56G-VSR/-MR/-LR Rx pre-compliance app (node-locked, transportable, floating or USB license)
File Name:	SetupM80RxOIFCEI01500000.exe

Enhancements

- Based on the specification for *OIF-CEI-4.0 Common Electrical I/O (CEI) - Electrical and Jitter Interoperability Agreements, December 29, 2017*:
 - o Introduced standard options “Medium Reach” and “Long Reach”.

- Updated VSR Host Input and VSR Module Input standard options.
- Modified the user interface for “InfiniiSim Setup”.
- Introduced “Calibration View” tab to plot graphs for continuous calibrations only.
- Introduced “Calibration Editor” to display and modify existing calibration data.
- Included support for data upload to KS6800A Data analytics software.

Breaking Change

- Project files saved in version 1.0.0.0 of the Test Application are incompatible (cannot be loaded) in the current version.

Release V1.0.0.0

Released Date:	December 7, 2017
Operating System:	Microsoft Windows 7 (64 bit) SP1, Microsoft Windows 8 (64 bit) Microsoft Windows 8.1 (64 bit) Microsoft Windows 10 (64 bit)
Display resolution:	Minimum requirement 1024 x 768
Oscilloscope Required:	86100D with 86108B plugin. FlexDCA Software Version 5.63 or above
Software Pre-requisites:	Keysight IO Library rev. 17.2 or above
Application Requirements:	Keysight M8070A System Software Version: 4.0 or above with options OTP Keysight M8045A with options G32, OG2, OG3, OG4 and OP3 Keysight M8046A with options A32 and OP3 Keysight N1076A with options 232 and CR1 Keysight 86100D with options ETR, 200, 201, 9FP and SIM Keysight 86108B with options HBW, 232, PT2, CA2 and DC2 Keysight M809256PA options M809256PA-1FP or M809256PA-1FT
File Name:	SetupM80RxOIFCEI01000000.exe

Features

- Initial Release. The application provides the following calibrations and tests for CEI-56G-VSR Host and CEI-56G-VSR Module compliance according to draft 13. (Note: Crosstalk calibration at TP1a and TP4 still according to draft 11 with target transition time of 19 ps.)

VSR Host Testing

Calibrations	Crosstalk Amplitude UUGJ SJ Stressed Eye
Tests	Stressed Input Voltage Tolerance

VSR Module Testing

Calibrations	Crosstalk Amplitude UUGJ SJ Stressed Eye
Tests	Stressed Input Voltage Tolerance
