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MT8852B EDR Bluetooth Test Set

LabVIEW Drivers Version 1.1.0

Overview

Anritsu maintain a policy of continuous development and enhancement of instrument software and support tools. This release note defines the latest enhancements and any relevant notes relating to the MT8852B LabVIEW Drivers version 1.1.0, which is freely downloadable from the Anritsu web site at:

http://www.eu.anritsu.com/products/default.php?p=207&model=MT8852B

For automatic notification of new software releases, send a blank email to:

bluetooth.support@anritsu.com

with a subject heading of “MT8852B software notification request”.

Introduction

The MT8852B LabVIEW drivers version 1.1.0 implement the full set of GPIB commands supported by the Anritsu MT8852B Bluetooth Test Set. The LabVIEW drivers should be used exclusively with the MT8852B instrument, as they will not be fully compatible with previous models.

System Requirements

The driver VIs version 1.1.0 should be used with LabVIEW 7.1 software (or a later version). The drivers have been updated to be fully compatible with MT8852B software version 4.08.004. The drivers also contain additional VIs for future software releases.

To determine the software version an MT8852B Test Set press the CONFIG key on the front panel, select MT8852B > Identity. The software version number is displayed under the ‘Version:’ heading. If the Test Set software version is lower then 4.08.004, please contact you local Anritsu Sales Office for an upgrade or follow the link to the Anritsu website above to download the latest firmware.

LabVIEW Drivers Installation

By default, the *‘Au71MT8852B_LV-1.1.0.exe’* file will install the drivers in a folder called Au71MT8852B under *‘C:\Program Files\National Instruments\LabVIEW 7.1\instr.lib’*. If this is not your preferred location an alternative path may be specified in the dialog that appears when the self-extracting EXE file is launched.

IMPORTANT NOTES:

- If you do not extract the driver VI set in the ‘instr.lib’ folder of your installed LabVIEW software, it will not appear under LabVIEW’s Function Palette.
- You are advised to still define the target folder as Au71MT8852B for your preferred path, to maintain the driver files in their intended sub-folder hierarchy and prevent corruption of the drivers.

LabVIEW DLL

There is no LabVIEW DLL for the MT8852B.

Driver VI Usage

To maintain compatibility with the Test Set firmware version, use the VIs listed below under the relevant version of the firmware installed on your instrument.

- **MT8852B software version 4.08.004**

AuMT8852B EDR BER Floor Sensitivity Results LEG.vi

AuMT8852B EDR Differential Phase Encoding Results LEG.vi

AuMT8852B EDR Maximum Input Power Results LEG.vi

AuMT8852B EDR Sensitivity Results LEG.vi

AuMT8852B EDR Relative Transmit Power Results LEG.vi

AuMT8852B EDR BER Floor Sensitivity Extended Results LEG.vi

AuMT8852B EDR Differential Phase Encoding Extended Results LEG.vi

AuMT8852B EDR Maximum Input Power Extended Results LEG.vi

AuMT8852B EDR Sensitivity Extended Results LEG.vi

AuMT8852B EDR Relative Transmit Power Extended Results LEG.vi

AuMT8852B EDR Relative Transmit Power Results.vi

AuMT8852B EDR Relative Transmit Power Extended Results.vi

- **Future MT8852B software version 4.10.000**

AuMT8852B EDR BER Floor Sensitivity Results.vi

AuMT8852B EDR Differential Phase Encoding Results.vi

AuMT8852B EDR Maximum Input Power Results.vi

AuMT8852B EDR Sensitivity Results.vi

AuMT8852B EDR Relative Transmit Power Results.vi

AuMT8852B EDR BER Floor Sensitivity Extended Results.vi

AuMT8852B EDR Differential Phase Encoding Extended Results.vi

AuMT8852B EDR Maximum Input Power Extended Results.vi

AuMT8852B EDR Sensitivity Extended Results.vi

AuMT8852B EDR Relative Transmit Power Extended Results.vi

- **Example VIs listed below are compatible with software version 4.08.004**

AuMT8852B EDR Rel Outp Pwr Extended Test.vi

AuMT8852B EDR Rel Outp Pwr Summary Test.vi

- **Example VIs listed below are ONLY compatible with future software version 4.10.000**

AuMT8852B EDR BER Floor Sensitivity Extended Test.vi

AuMT8852B EDR BER Floor Sensitivity Summary Test.vi

AuMT8852B EDR Diff Phase Enc Extended Test.vi

AuMT8852B EDR Diff Phase Enc Summary Test.vi

AuMT8852B EDR Max Inp Pwr Extended Test.vi

AuMT8852B EDR Max Inp Pwr Summary Test.vi

AuMT8852B EDR Sensitivity Extended Test.vi

AuMT8852B EDR Sensitivity Summary Test.vi

Changes in LabVIEW Drivers version 1.1.0 relative to version 1.0.0

o All VIs listed in this section have been modified to display additional measurement results, which are only available over the GPIB interface (i.e. they will not be displayed on the instrument's front panel).

- AuMT8852B EDR BER Floor Sensitivity Results.vi
- AuMT8852B EDR Differential Phase Encoding Results.vi
- AuMT8852B EDR Maximum Input Power Results.vi
- AuMT8852B EDR Sensitivity Results.vi
- AuMT8852B EDR Relative Transmit Power Results.vi
- AuMT8852B EDR BER Floor Sensitivity Extended Results.vi
- AuMT8852B EDR Differential Phase Encoding Extended Results.vi
- AuMT8852B EDR Maximum Input Power Extended Results.vi
- AuMT8852B EDR Sensitivity Extended Results.vi
- AuMT8852B EDR Relative Transmit Power Extended Results.vi

Known Limitations of 1.1.0 Release

The Test configuration VI 'AuMT8852B EDR Carrier Frequency and Modulation Configuration.vi' does not support editing of the number of payload blocks measured (NUMBLKS parameter). This feature is scheduled to be included in the next software release.