CalEasy SERIES

CALIBRATION & VERIFICATION SOFTWARE FOR MTS INSTRUMENTATION

- Supports automated calibration and verification of Marvin Test Solutions instrumentation
- Includes driver support for standards instrumentation required for verification and calibration
- Supports instrument driver interchangeability allowing replacement of the supplied standards drivers with any compatible standards instrument
- Supports creation of customized calibration certificates, Automatic generation of calibration log
- Multiple operation modes supports verification only or combined verification / calibration

DESCRIPTION

CalEasy is a full-featured, Calibration Executive software package that supports the verification and calibration of Marvin Test Solutions instruments. The software is intended for use by users that prefer to perform in-house calibration and verification for their Marvin Test Solutions instruments. By calibrating or verifying the instrument in-house, the time and cost associated with returning an instrument to Marvin Test Solutions for calibration service can be eliminated or reduced.

CalEasy is also used internally by Marvin Test Solutions production to perform initial calibration and to recalibrate the instrument when received for service. This ensures that user and factory based calibration performance is similar. Depending on the specific instrument, standards instrumentation supported for calibration / verification includes a DMM, and a frequency standards module. Some modules require the use of matrix switch card.

CalEasy's driver architecture supports the use of alternate standards instrumentation as well. New standards drivers can be developed using external development environments that can support the creation of DLLs.

FEATURES

CalEasy uses instrument standards to perform calibration and calibration verification. CalEasy's instrument drivers are called Standards and are interchangeable - allowing the user to employ different instruments from different manufacturers. To provide interchangeability, CalEasy uses a DLL with a predefined instrument interface (functions/API) for each driver type. Each calibration program requires certain functions and capabilities to perform calibration and for each function, the user must supply a DLL that supports the required functional interface. If you choose to use your own instrument, you can create a DLL driver for your standard instrument and configure CalEasy to use your driver.

New drivers can be written using the ATEasy software development environment or with any other development environment including C/C++, Visual Basic, LabView or any other language that supports the creation of DLLs. CalEasy is supplied with samples for several instrument drivers created in ATEasy.

CalEasy supports several calibration run modes:
- Verify only: In this mode no calibration is done. The instrument is only verified to its original specification and the result is printed to a test log.
- Verify and Calibrate if required: In this mode verification is performed and if required (the verification task failed) the instrument is calibrated. If calibration is successful the instrument's non-volatile memory is modified with the new calibration values and a calibration certificate is generated. Alternately, if the verification is OK the instrument's non-volatile memory is modified with the new calibration date but no new calibration values are written to the instrument and a certificate is generated.
- Calibrate Always: In this mode no initial verification is performed. The calibration task is performed and the certificate is generated upon successful calibration

APPLICATIONS

- Verification of Marvin Test Solutions instruments
- Re-calibration of Marvin Test Solutions instruments

CalEasy SERIES

SUPPORTED INSTRUMENTS

- GX1034
- GX1110
- GX1120
- GX1164
- GX1632e
- GX1649
- GX1838
- GX2065
- GX3104
- GX3116e
- GX3348
- GX3722
- GX3748
- GX3788
- GX5055
- GX5295
- GX5296
- GX5960 series (GX5961/GX5964)
- GTX2200 Series

SPECIFICATIONS

CALEASY - VERIFICATION AND CALIBRATION EXECUTIVE SOFTWARE	
Compatibility	Windows XP (SP3)-Windows 10 (32/64 bit) ATEasy free run-time (see the CalEasy ReadMe.txt or User's Guide for required version)
Supported Calibration of Marvin Test Solutions Instrumentation	GTX2210, GTX2220, GTX2230 - 3U PXI, Timer/Counters GX1034; Precision Reference Standards PXI Card GX1110; 3U PXI, One Channel, arbitrary waveform function generator GX1120; 3U PXI, Two Channel, arbitrary waveform function generator GX1164; 3U PXI, Programmable Resistor GX1632e: 3U PXIe, Analog Output / Arbitrary Waveform Generator GX1649; 3U PXI, analog output/arbitrary waveform generator GX1838; 3U PXI, Precision Multi-Channel DC Source GX2065; 3U PXI, 6½ Digit DMM / digitizer GX3104; 3U PXI, 4 channels SMU GX3116e; 3U PXIe, 16 Channels DPS/SMU GX3348; 6U PXI, Multi-Channel Analog I/O GX3722 3U PXI, Multi-Function I/O GX3748; 3U PXI, Threshold comparator GX3788 3U PXI, Multi-function FPGA module GX5055; 6U PXI, 32 channel DIO GX5295; 3U PXI, 32 channel DIO GX5296; 3U PXI, 32 channel DIO GX5961/GX5964; 6U PXI, 32 & 16 channel DIO
Test Modes	Verify Only, Verify and Calibrate if Required, Calibrate Only
Verification Log Data File Formats	Text and HTML
Certification Documentation	Standard template, can be customized
License	Single machine software license

Note: Specifications are subject to change without notice

SOFTWARE

CalEasy SERIES

ORDERING INFORMATION

CalEasy	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with One Year Support and Subscription
CalEasy-2Y	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with Two Year Support and Subscription
CalEasy-3Y	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with Three Year Support and Subscription
CalEasy-GX1034	CalEasy for the GX1034 (Single User License) with One Year Support and Subscription
CalEasy-GX1110	CalEasy for the GX1110 (Single User License) with One Year Support and Subscription
CalEasy-GX1120	CalEasy for the GX1120 (Single User License) with One Year Support and Subscription
CalEasy-GX1164	CalEasy for the GX1164 (Single User License) with One Year Support and Subscription
CalEasy-GX1632e	CalEasy for the GX1632e (Single User License) with One Year Support and Subscription
CalEasy-GX1649	CalEasy for the GX1649 (Single User License) with One Year Support and Subscription
CalEasy-GX1838	CalEasy for the GX1838 (Single User License) with One Year Support and Subscription
CalEasy-GX2065	CalEasy for the GX2065 (Single User License) with One Year Support and Subscription
CalEasy-GTX2200	CalEasy for the GTX2200 Series (Single User License) with One Year Support and Subscription
CalEasy-GX3104	CalEasy for the GX3104 (Single User License) with One Year Support and Subscription
CalEasy-GX3116	CalEasy for the GX3104 (Single User License) with One Year Support and Subscription
CalEasy-GX3348	CalEasy for the GX3348 (Single User License) with One Year Support and Subscription
CalEasy-GX3788	CalEasy for the GX3788 (Single User License) with One Year Support and Subscription
CalEasy-GX5055	CalEasy for the GX5055 (Single User License) with One Year Support and Subscription
CalEasy-GX5295	CalEasy for the GX5295 (Single User License) with One Year Support and Subscription
CalEasy-GX5296	CalEasy for the GX5296 (Single User License) with One Year Support and Subscription
CalEasy-GX5960 Series	CalEasy for the GX5961 / GX5964 (Single User License) with One Year Support and Subscription
CalEasy-UG	Upgrades a Single Instrument CalEasy License to Include All Supported Marvin Test Solutions Instruments
CalEasy-S1Y	Renew CalEasy Subscription and Support 1 Year
CalEasy-S2Y	Renew CalEasy Subscription and Support 2 Years
CalEasy-S3Y	Renew CalEasy Subscription and Support 3 Years
CalEasy-EXP6	Renew CalEasy Subscription and Support (expired 1 day to 6 months)
CalEasy-EXP24	Renew CalEasy Subscription and Support (expired 7 to 24 months)
CalEasy-SUP	1-year Support only for CalEasy (no upgrades)
CalEasy-GX3722	CalEasy for the GX3722 (Single User License) with One Year Support and Subscription
CalEasy-GX3748	CalEasy for the GX3748 (Single User License) with One Year Support and Subscription

ACCESSORY

GT96111	GX1838 Calibration Cable Assembly
GT96112	GX1164 Calibration Cable Assembly
GT96109	GX1649 / GX3348 Calibration Cable Assembly
GX5055-5960-CALKIT	Calibration cable kit for use with the GX5055 / GX5960 DIO modules & CalEasy
GX5295-96-CALKIT	Calibration cable kit for use with the GX5295 / GX5296 DIO modules & CalEasy
GX5960A-CALKIT	Calibration cable kit for use with the GX5960A DIO modules & CalEasy
GX3722-CALKIT	Calibration cable kit for use with the GX3722 module & CalEasy
GX3748-CALKIT	Calibration cable kit for use with the GX3748 module & CalEasy

SOFTWARE