

RELEASEnotes

HBM LabVIEW Driver

Version 4.0 – February 2021

Two setups are available: one for LabVIEW 64-Bit and one for LabVIEW 32-Bit versions.

New functions

The most relevant properties and functions, that have been added since the last release, are mentioned here:

- Update of underlying HBM Common API to Version 6.0 (please check Release Notes for changes compared to version 3.1 used in last version of LabVIEW driver)
- Supporting new optical module QuantumX MXFS
- Supporting QuantumX / SomatXR MX471C(-R) and CANraw functionality
- MGCplus: sample rates above 2400 S/s are now supported
- Select filter type (and not only filter frequency)
- Activation and deactivation of signals
- New and modified demo VIs
- Additional resources: Example VIs for certain requirements

System Requirements

To use HBM LabVIEW Driver your system has to meet following requirements:

- LabVIEW Version 2012 or higher (tested with LabVIEW 2012, 2014, 2015 SP1 and 2019)
- Windows 7, 8, 10
- .NET Framework 4.0
- QuantumX Firmware: 4.2.56 or higher
- PMX Firmware: 2.04 or higher - tested with 4.40
- MGCplus CP52 Firmware: 5.0.15 or higher
- MGCplus CP42 Firmware: 4.84 or higher
- MGCplus CP22 Firmware: 4.44 or higher

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RELEASEnotes

Version 3.0 - January 2017

New functions

- Support of LabVIEW 64 Bit Version
Two setups are available now. One for LabVIEW 64 Bit and one for LabVIEW 32 Bit
- Update of underlying HBM Common API to Version 3.1
- Acquisition of CAN signals
- Support of MGCplus ML455

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RELEASEnotes

Version 2.0.2 - July 2015

IMPROVEMENTS AND BUG FIXES

- Decimal sample rate domain introduced with the QuantumX B Hardware platform: The last active channel of a module might show a small time asynchronicity of up to 5 ms compared to the other channels. This problem is fixed in Version 2.0.2. The Classical sample rate domain was not concerned.
- In case that faulty external DLLs were located in the LabVIEW application folder it could happen that an exception was thrown, even if the DLL was not used. This will not happen anymore.
- If VIs were executed in a loop this could lead to memory leaks. This will not happen anymore.
- Rework of Examples

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RELEASEnotes

Version 2.0 - February 2015

New functions

- Support of Analog Out for all DAQ systems
- Support of Digital IO for all DAQ systems

Supported functions Overview

DAQ System	HBM LabVIEW Driver V2		
	QuantumX	PMX	MGCplus
Device Scan	✓	✓	(1)
Measurement configuration	✓	✓	✓
Sensor configuration	(2)	(2)	(2)
Analog In DAQ	✓	✓	✓
Analog Out (direct setting)	✓	✓	✓
Analog Out (channel routing)	✓	✓	✓
Digital In/Out DAQ	✓	✓	✓
Digital Out (direct setting)	✓	✓	✓
CAN DAQ		✓ (3)	

(1) Not supported by hardware

(2) There are no dedicated VIs for sensor configuration (nevertheless it is possible to setup sensor settings by using the API directly)

(3) Configuration via CoDeSys/calc. channels;

Requirements

To use the HBM LabVIEW Driver V2 your system has to meet following requirements:

- LabVIEW 2012 or higher, 32Bit Version only
- .NET Framework 4.0
- QuantumX Firmware: 4.2.8 or higher
- PMX Firmware: 2.00 or higher
- MGCplus Firmware: 4.74 or higher

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RELEASEnotes

Version 1.0 – Initial Release - November 2014

Supported functions Overview

DAQ System	LabVIEW Driver		
	QuantumX	PMX	MGCplus
Device Scan	✓	✓	(1)
Measurement configuration ⁽²⁾	✓	✓	✓
Sensor configuration	(3)	(3)	(3)
Analog In DAQ	✓	✓	✓
Analog Out (direct setting)	✓		
Analog Out (channel routing)			
Digital In/Out DAQ	✓	✓	
Digital Out (direct setting)	✓	✓	
CAN and other fieldbus interfaces			

(1) Not supported by hardware

(2) Sample rate and filter frequency

(3) There are no dedicated VIs for sensor configuration (nevertheless it is possible to setup sensor settings by using the API directly)

Requirements

To use the HBM LabVIEW Driver your system has to meet following requirements:

- LabVIEW 2012 or higher, 32Bit Version only
- .NET Framework 4.0
- QuantumX Firmware: 4.0.24 or higher
- PMX Firmware: 1.44 or higher
- MGCplus Firmware: 4.74 or higher

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