

October 2018

Thank you for choosing HBM as solution provider for your measurement, testing and analysis tasks.

This document shows product news and dependencies around the QuantumX and SomatXR data acquisition series, for instance modules, accessories, firmware, PC software, documentation, services and trainings.

As this document is also part of the DVD shipped together with every single module, please check whether an updated version is available on <http://www.hbm.com>

We always recommend using the latest release of firmware and software!

Your opinion counts a lot. Please contact us and let us know how to improve our products and services. Many thanks in advance: <http://www.hbm.com/support/>

What's new or updated?

New modules

- QuantumX CX22B and CX22B-W with now 240 GB upgraded internal SSD data storage
- SomatXR MX1609TB-R, 16 ch Thermocouple Type T with wireless TEDS functionality

MX Module Firmware 4.12.32 (0, A and B platform)

- **Fixed Issues**
 - Timescale ARB support and "UTC offset" for GENESIS/perceptions' PTP daemon
 - MX471/B: When booting with CAN Id 1 activated, the decoder was not working, until CAN id is changed and set back to CAN Id 1.
 - MX471/B / MX840/A/B: when storing of XML parameters takes too long, a communication request from PC software may run into a timeout.
 - MX440A/B, MX840/A/B, MX1615/B, MX1616B: Improvements of adjustment for RTDs / PTx sensors and resistors.
 - MX440A/B, MX840/A/B: bugfixes for frequency sensor (switching TEDS usage may cause invalid meas values; if frequency is zero, every 107 seconds an invalid spike is seen).
 - MX590B-R / pressure measurement: output unit now supports Torr, mmHg, atm
 - MX1601: improved over current handling now supports a wider range of pressure sensors with higher startup power demand.

PC Software

- MX Assistant 4. in preparation, will be launched together with CX27C
- New:
 - PTP time source now provides Interface and scope parameters.
 - PROFINET

- Source assignment on only active channel.
- GSD file export.
- Re-assignment of slot / subslot.
- Allow StaticIPMode.GateWay.
- Analog output now with a guard of manual output setting.
- TEDS improvement
 - Copy & Paste of binary TEDS file.
 - Copy & Paste of sensor settings to TEDS.
- NEW Measurement spot identifier
 - Allows scanning bar code attached to plug or measurement spot – “quick channel name rigging”.
- New French and Japanese translations.
- Directly IP connected modules could not have firmware update.
- Digital I/O - CAN-IN sources supported.
- Outputs - Arithmetic type for CAN transmit mapping source.
- Fixed, changed or improved
 - Copy & Paste of test signals from channel to channel (when no sensor is connected)
 - Missing button "Update in database" in "Edit adaptation" dialog.
 - Outputs - PROFINET now uses module name if device name is empty.
 - Disconnecting of 1 of 2x CX linked via FireWire crashed.
 - Add-in for channel name rigging now with acoustic signaling.
 - Index exception activating A-Out of MX410 (when A-In is OFF).
 - Outputs - Edit channel was no longer active.
 - Edit properties - Auto expand newly selected options.
 - Outputs - Assigning sources warns about non isochronous signal.
 - More specific error when reading TEDS without template.
 - Importing module settings from old firmware did not handle sample rate domains correctly.
 - Momentary values messed up when de-/activating CAN signal.
 - Fixed scan crash because of invalid UUIDs.

Documentation

- **Reworked**
 - QuantumX Operating Manual
 - QuantumX CX27C PROFINET IRT datasheet and operating manual
 - QuantumX CX22B-W Data Recorder datasheet and operating manual
 - QuantumX MX403B / MX809B Isolated Operating Manual
 - QuantumX BPX backplane package leaflet

RELEASEnotes

QUANTUMX
SOMAT XR

- QuantumX Thermo-MX-Board for SubHD mounting
- SomatXR Operating Manual and Quick Start Guide
- SomatXR Ethernet PTP switch EX23-R datasheet
- SomatXR MX1609TB-R 16 ch. Thermocouple Type K datasheet
- **New**
 - SomatXR MX1609TB-R 16 ch. Thermocouple Type T datasheet

Version Chart

QuantumX / SomatXR for free PC software (DVD and download)	Version 4.61 (* = has been updated)
MX Assistant	4.71 *
FireWire driver for Microsoft Windows™	1.45.0.0 (please update)
HBM Device Manager	1.0.0.1

Device / module firmware	Version
QuantumX Data Recorder CX22B and CX22B-W	5.2.2 * (update: install new catman + license key)
QuantumX MX840B, MX440B, MX1615B, MX1601B, MX1609KB/TB, MX410B, MX460B, MX430B, MX238B, MX403B, MX809B, MX471B, MX878B, MX879B, CX27B and older modules.	4.12.32 *
QuantumX CX27C, MX471C	4.14
SomatXR Data Recorder CX23-R	2.6.1.4 *
SomatXR MX840B-R, MX1615B-R, MX1601B-R, MX1609KB-R, MX411B-R, MX471B-R, MX460B-R	4.12.32 *
SomatXR CX27C-R	4.14
Framework.dll	4.16.2 *

Commercial PC software (DVD and download)	Version
EVIDAS	1.1 * (in preparation)
catman®EASY / AP	5.2.2 5.3 * (in preparation)
catman®Enterprise	7.2 *
HBM Common LabVIEW™ driver	3.0
HBM Common API driver for Visual Studio .NET	3.1
QuantumX CANape driver	4.1.5 *

The software shown in the version chart has passed functional validation and quality assurance procedures (verification). To our best knowledge and expertise the software is bug free and qualified to be used in test & measurement tasks (IATF 16949).

Minimal Requirements for the PC

- Software:
 - Windows®XP, Vista™, 7, 8.x or 10
 - Microsoft Internet Explorer Version 8.0 or newer
 - Microsoft .NET Framework 4.0
if necessary, needs to be manually installed using Windows-Update under Windows 8
- Hardware:
 - 32 or 64 Bit architecture
 - Intel Pentium 1 GHz or equivalent
 - Memory (RAM):
 - 512 MByte under Windows® XP
 - 1024 MByte under Windows Vista™, 7, 8.x or 10
 - Graphic card and monitor with resolution of at least 1024 x 768 pixels
 - Up to 100 MByte free hard disk memory (more in case of lacking .NET Framework)
 - Ethernet interface (100/1000 MBit)
 - Optional FireWire 1394b adapter (PC-CARD, expressCARD/34, PCIeexpress or Thunderbolt).

Copyright © 2018 HBM Test & Measurement. All rights reserved.