

**December 2021**

Thank you for choosing Hottinger Brüel & Kjaer (HBK) 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 system software 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 shown in this document for all modules and PCs!

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

- None

### MX Module Firmware 4.40.6.0 (0, A, and B platform)

- **New**
  - MX471B: Configuration stored by MX471C can be partly assigned (except CAN FD)
  - MX590B: Wider measurement range (into overload, without precision) up to  $\pm 150\%$  sensor range
  - All: minor bug fixes and improvements
- **Known Bugs**
  - B platform: Modules with revision 27D or 2FD cannot be operated with a firmware smaller 4.40.6.0

### MX Module Firmware 4.40.6.0-C (C platform)

- **New**
  - MX471C: CAN FD protocol ISO or Non-ISO can be selected for each CAN connector (default: ISO)
  - MX471C: Configuration stored by MX471B can be assigned
  - CX27C: EtherCAT PDOs can be received as signals
  - All: minor bug fixes and improvements
- **Known Bugs**
  - MXFS-DI: Sample rates smaller 0.1 S/s are not supported anymore (automatically set to 0.1 S/s)

- CX27C: Before downgrading to a version below 4.32 the fieldbus mode must be set to PROFINET because no other fieldbus is supported in lower versions

## PC Software

- **catman 5.5.2**
  - **New**
    - Import of CAN signals from Autosar ARXML files
    - Export of CAN raw channel data to Vector binary logging format (BLF)
    - MX471C bus load monitoring
    - New force transducer groups added to HBK sensor database (U10F and C5)
    - Updating CAN signals in sensor database
    - New GNSS (called GPS before) channel to display number of satellites in view
    - Statistics journals update during pre-trigger time
    - Updating EasyPlan (SomatXR and QuantumX are now separated)
    - Online help in new format
    - Offering evaluation mode for catman AP (25 starts)
    - Improving sensor wiring diagrams
    - Improving spectrogram visualization
    - Various improvement for MXFS
    - Modified documentation for data streaming to InfluxDB
    - Small fixes and improvements
- **MX Assistant 4.13.1**
  - **New**
    - Extended SensorDB by adding electrical range
    - EtherCAT channels can be received as signals
    - Allow scientific notation for polynomial coefficients
    - Sensor settings of optical wavelength sensor now show type (abs/rel)
    - Changing sample rate domain or MXFS sample-rate speed-mode now asking if a reboot should be executed
    - Bei Wechsel der Messratendomäne und des Messraten-Speed-Modus wird ein Neustart angefragt
    - Calibration certificates can now be exported in bulk as PDF or XML
    - System overview now displays the most recent calibration date (from calibration certificates)
    - Small fixes and improvements

## Documentation

- **New**
  - Datasheet CX22B-R
  - Leaflet BPX002-SIDE
  - Step files of all modules and selected accessories are not included in download
  
- **Reworked**
  - Datasheet CX22B\_CX22B-W
  - Datasheet MX1615B
  - Datasheet MX1615B-R
  - Datasheet MX1616B
  - Datasheet MX430B
  - Datasheet MX440B
  - Datasheet MX590B-R
  - Leaflet SCM-SGx
  - Leaflet SCM-TCx
  - Operating Manual QuantumX
  - Operating Manual MXFS
  - Quick Start Guide QuantumX
  - Quick Start Guide SomatXR

## Version Chart

QuantumX / SomatXR for free PC software (DVD and download)	Version 4.13.1 (* = has been updated)
MX Assistant	4.13.1 *
HBM Device Manager	2.0.0
FireWire driver for Microsoft Windows™	1.45.0.0

Device / module firmware	Version
<b>QuantumX</b> Data Recorder CX22B and CX22B-W	Firmware: 5.3.1.1 Update: 5.5.2 * (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.	4.40.6.0 *
QuantumX CX27C, MX471C	4.40.6.0-C *
<b>SomatXR</b> Data Recorder CX22B-R-W	Firmware 5.3.1.1 Update: 5.4.2 * (update: install new catman + license key)
SomatXR MX840B-R, MX1615B-R, MX1601B-R, MX1609KB- R/TB-R, MX411B-R, MX471B-R, MX460B-R	4.40.6.0 *
SomatXR CX27C-R, MX471C-R	4.40.6.0-C *
Framework.dll	4.33.2

Commercial PC software (DVD and download)	Version
catman®EASY / AP	5.5.2 *
HBM Common LabVIEW™ driver	4.0
HBM Common API driver for Visual Studio .NET	6.2 *
QuantumX CANape driver	4.1.5 (for V13-16), 4.1.6 (for V17+)

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® 8.x or 10
  - Microsoft Internet Explorer Version 8.0 or newer
  - Microsoft .NET Framework 4.x  
*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):
    - 1024 MByte under Windows 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).

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