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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 4.38.6.0 (0, A, and B platform)

- **New**
  - Electrical sensor range overload detection added
  - MX590B: sensor range overload diagnosis stored in xml
  - MX878/879: Behavior of analog output on error (if source is invalid), can be selected and defined
  - For safety reasons, test signal not available on MX403B and cannot be activated on other module types, if SCM-HV is connected
  - All: minor bug fixes

### MX Module Firmware 4.38.6.0-C (C platform)

- **New**
  - Electrical sensor range overload detection added
  - MXFS8: Sample rates 0.05, 0.02 and 0.01 S/s added
  - CX27C: synchronizes to external NTP server in all Fieldbus modes
  - All: minor bug fixes
- **Known Bugs**
  - 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 5.4.2**
  - No update
  
- **MX Assistant 4.12.1**
  - **New**
    - Overload-detection mode for sensors added
    - Check for max. table point count or polynomial segment count
    - Saving device settings now includes raw device XML views
    - Collapse / expand all in channels / signals / outputs table
    - Small fixes and improvements

## Documentation

- **New**
  - Datasheet CX22B-R (w/o WiFi)
  - Operating Manual MXFS
  
- **Reworked**
  - Datasheet MX1615B
  - Datasheet MX1615B-R
  - Datasheet MX1616B
  - Datasheet MX238B
  - Datasheet MX430B
  - Datasheet MX471C
  - Datasheet MX471C-R
  - Datasheet MX590B-R
  - Leaflet BPX
  - Operating Manual CX27C-R

## Version Chart

| QuantumX / SomatXR for free PC software<br>(DVD and download) | Version 4.12.1 (* = has been updated) |
|---|---------------------------------------|
| MX Assistant  | 4.12.1 *                              |
| 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<br>Update: 5.4.2<br>(update: install new catman + license key) |
| QuantumX MX840B, MX440B, MX1615B, MX1601B,<br>MX1609KB/TB, MX410B, MX460B, MX430B, MX238B, MX403B,<br>MX809B, MX471B, MX878B, MX879B, CX27B and older modules. | 4.38.6.0 *   |
| QuantumX CX27C, MX471C   | 4.38.6.0-C *   |
| <b>SomatXR</b> Data Recorder CX22B-R-W   | Firmware 5.3.1.1<br>Update: 5.4.2<br>(update: install new catman + license key)  |
| SomatXR MX840B-R, MX1615B-R, MX1601B-R, MX1609KB-<br>R/TB-R, MX411B-R, MX471B-R, MX460B-R  | 4.38.6.0 *   |
| SomatXR CX27C-R, MX471C-R  | 4.38.6.0-C *   |
| Framework.dll  | 4.33.2   |

| Commercial PC software<br>(DVD and download) | Version                              |
|--|--------------------------------------|
| catman®EASY / AP                             | 5.4.2                                |
| catman®Enterprise                            | 8.1.1                                |
| HBM Common LabVIEW™ driver                   | 4.0 *                                |
| HBM Common API driver for Visual Studio .NET | 6.1 *                                |
| 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® 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):
    - 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).

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