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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

- **MXFS8DI1/FC:** Optical data acquisition module of the QuantumX family with 8 connectors to measure up to 15 transducers in a single optical fiber. With connected fiber bragg sensors you can capture measurands like e.g. strain, force, acceleration, temperature and inclination.

MX Module Firmware 4.36.4.0 (0, A, and B platform)

- **New**
  - MX878/MX879: Math unit "Logical Gate" (AND/OR/XOR) with up to 32 inputs and non-inverted and inverted outputs
  - MX878/MX879: Number of independent Alarm function units increased to 32
  - MX878/MX879: Asynchronous signals (only float) can be connected to Alarm inputs
  - MX1615, MX1616: Support of Pt500 and Pt1000 (in addition to Pt100), but only one type active per module
  - All: minor bug fixes

MX Module Firmware 4.36.4.0-C (C platform)

- **New**
  - CX27C: xCP-on-Ethernet: signal output to integrate into MCD tool sets (Measurement, Calbration, Diagnosis), simultaneously with EtherCAT or PROFINET
  - MX471C: Analysis of the bus load on CAN / CAN FD (bus load analysis)
  - 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

MX Module Firmware 4.36.8.0-C (MXFS only)

- **First official release**
- **Known Bugs**
  - Sensor configuration of sensor type "temperature" does not work correctly. Work around: Use generic sensor type and set factors accordingly.

PC Software

- **catman 5.4.1**
  - **New**
    - MXFS: new optical module is now supported (catman Easy)
    - New mode for the unattended autonomous operation of DAQ jobs
    - Integration of GNSS/GPS devices into existing projects
    - Usability enhancement of the analysis mode
    - Small fixed and improvements

- **MX Assistant 4.11.1**
  - **New**
    - MXFS: new optical module is now supported
    - MX878/879: Math unit "Logical Gate" (AND/OR/XOR) with up to 32 inputs and non-inverted and inverted outputs
    - MX471C: Bus load analysis
    - Sensor data base update with new sensors
    - Asynchronous signals can be used in alarm functions
    - Small fixes and improvements

Documentation

- **New**
  - Datasheet MXFS
  - Operating Manual MXFS
- **Reworked**
  - Datasheet CX22B/-W
  - Datasheet CX22B-R-W
  - Datasheet CX27C
  - Datasheet MX1609KB

- o Datasheet MX1609TB
- o Datasheet MX1601B
- o Datasheet MX1615B
- o Datasheet MX1615B-R
- o Datasheet MX1616B
- o Datasheet MX410B
- o Datasheet MX430B
- o Datasheet MX440B
- o Datasheet MX471B
- o Datasheet MX471C-R
- o Datasheet MX809B
- o Datasheet MX879B
- o Leaflet BPXs
- o Operating Manual CX22B/-W
- o Operating Manual CX27C-R
- o Quick Start Guide QuantumX

Version Chart

QuantumX / SomatXR for free PC software (DVD and download)	Version 4.11.1 (* = has been updated)
MX Assistant	4.11.1 *
HBM Device Manager	2.0.0 *
FireWire driver for Microsoft Windows™	1.45.0.0

Device / module firmware	Version
QuantumX Data Recorder CX22B and CX22B-W	Firmware: 5.3.1.1 Update: 5.4.2 * (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.	4.36.4.0 *
QuantumX CX27C, MX471C	4.36.4.0-C *
QuantumX MXFS (NEW)	4.36.8.0-C *
SomatXR 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	4.36.4.0 *
SomatXR CX27C-R, MX471C-R	4.36.4.0-C *
Framework.dll	4.16.2

Commercial PC software (DVD and download)	Version
catman®EASY / AP	5.4.2 *
catman®Enterprise	8.0.1
HBM Common LabVIEW™ driver	3.0
HBM Common API driver for Visual Studio .NET	5.0
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® 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):
    - 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, PCIexpress or Thunderbolt).