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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.

This document is also part of the system software available on <http://www.hbm.com/start>

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: [HBK Support](#).

What's new or updated?

New modules

- None

MX Module Firmware 4.46.16.0 (0, A, and B platform)

- **New**
 - All: Support of new TEDS chip DS28E07 (HBK pack of 5 pcs: 1-TEDS-PAK-B)
 - MX590B: Measurement range is limited to "Pmin – 0.1" to "1.5 x Pmax"
 - All: minor bug fixes and improvements
- **Known limitations**
 - B platform (Module Revision): Modules with revision 27D or 2FD cannot be operated with a firmware smaller 4.40.6.0, modules with revision 47D or 4FD with a firmware smaller 4.40.10.0.
 - MX440B, MX840B, MX590B: In decimal data rate domain the filter frequency of the second signals is smaller as parameterized (factor 2).

MX Module Firmware 4.46.16.0-C (C platform)

- **New**
 - CX27C: A2L template replaced, now supporting min/max
 - All: minor bug fixes and improvements
- **Known limitations**
 - MXFS-DI: Sample rates smaller 0.1 S/s are not supported anymore (automatically set to 0.1 S/s).
 - CX27C: All modules (no A, B or C version) are not always found behind a CX27C. Workaround: Soft reboot of only CX27C.

- CX27C: Before downgrading to a version below 4.32 the fieldbus mode must be set to PROFINET because no other fieldbus is supported in CX27C with lower versions.
- All (Module Revision): Modules with revision 501 cannot be operated with a firmware smaller 4.40.10.0-C.

CX22-Masterimage 5.6.1 (for new units and chargeable upgrade for B platform)

- **New**
 - Operating system: Windows 10 IoT Enterprise 2019 LTSC
 - Pre-installed software
 - Catman Easy 5.6.1
 - MX Assistant 4.14.1

PC Software

- **catman 5.6.1**
 - **New**
 - New video camera server system supporting USB cameras and IP cameras from Axis and Liebherr (MDC3)
 - Torque transducer groups T40MS and T210 added to HBK sensor database
 - MXFS: Support for 3rd polynomial coefficient of optical sensors
 - Maximum number of EtherCAT channels per CX27C increased to 100
 - Butterworth low-pass filters in analysis project now support 2nd and 4th order
 - minor bug fixes and improvements
- **MX Assistant 4.14.1**
 - **New**
 - User notifications from devices with more details (e.g. sync status)
 - MXFS: Support for 3rd polynomial coefficient of optical sensors
 - MXFS: Auto-detect optical channels now also supports input of threshold (in dB, default is 3 db)
 - CX27C: A2L template replaced, now supporting min/max
 - New HBK sensor data base (V6.9)
 - minor bug fixes and improvements

Documentation

- **Reworked**
 - Data sheet MXFS
 - Data sheets MX840B, MX840B-R
 - Data sheet MX440B

RELEASEnotes

QUANTUMX
SOMAT XR

- Data sheet MX809B
- Data sheet MX403B
- Data sheet MX238B
- Data sheet MX430B
- Data sheet MX460B
- Data sheet MX1615B
- Data sheet MX1601B

Version Chart

QuantumX / SomatXR for free PC software (DVD and download)	Version 4.14.1 (* = has been updated)
MX Assistant	4.14.1 *
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	Masterimage: 5.6.1 *
QuantumX MX840B, MX440B, MX1615B, MX1601B, MX1609KB/TB, MX410B, MX460B, MX430B, MX238B, MX403B, MX809B, MX471B, MX878B, MX879B, CX27B and older modules.	4.46.16.0 *
QuantumX CX27C, MX471C	4.46.16.0-C *
SomatXR Data Recorder CX22B-R-W	Masterimage: 5.6.1 *
SomatXR MX840B-R, MX1615B-R, MX1601B-R, MX1609KB- R/TB-R, MX411B-R, MX471B-R, MX460B-R	4.46.16.0 *
SomatXR CX27C-R, MX471C-R	4.46.16.0-C *
Framework.dll	4.33.2

Commercial PC software (DVD and download)	Version
catman®EASY / AP	5.6.1 *
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 for system software installation

- Software:
 - Windows® 10, or 11
 - Latest Internet Browser
 - Microsoft .NET Framework 4.x
- Hardware:
 - 32- or 64-Bit architecture
 - Intel Pentium 1 GHz or equivalent
 - Memory (RAM):
 - 1 GByte under Windows 8.x or 10
 - 4 GByte under Windows 11
 - 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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