December 2017

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: http://www.hbm.com

The software shown in the version chart below 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).

We always recommend using the released firmware and software shown in this document!

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?

Accessories

- **Thermocouple adapter: thermo mini to SubHD15 for universal amplifiers MX840/A/B, MX440A/B**
    - type K: 1-SCM-TCK
    - type E: 1-SCM-TCE
    - type J: 1-SCM-TCJ
    - type T: 1-SCM-TCT
- **Ready to use thermocouple type K, isolated, allowing safe temperature measurement with MX809B**
    - 1-ITC-K1000
- **Ready to use voltage measurement line, ± 5 V isolated, allowing safe voltage measurement with MX809B**
    - 1-ITC-U1001

MX Module Firmware 4.12

- **New Functionality**
    - New SomatXR MX590B-R direct pressure module supported.
    - MX878B / MX879B
        - Enhanced PID Controller (closed / open loop).
        - New watchdog safety guard controlling voltage output set by software.
        - Enhanced arbitrary signal generator controller (start, stop, hold).

- o MX840B / MX440B / MX460B
  - Read TEDS templates which support static direction indication (Frequency, Counter), for example HBM torque measurement with T12.
- o MX471B CAN
  - New CAN bit timing algorithm provide more user specific bit rates.

- **Fixed Issues**
  - o Common: Flag to handle multi-client access did not work anymore.
  - o Common: Static gateway address is restored after reboot.
  - o Common: Bugfix of framework.dll (HBM_QX_Framework.dll version 4.6.34.0).
  - o MX87x: Sending parameters twice could lead to unwanted behavior at analog output.
  - o CX27B, EtherCAT: not all isochronous signals were visible
  - o CAN: loading factory default resets CanTransmitMapping parameters
  - o Handling of asynchronous signals fixed, e.g. control signal of peak unit leads to crash.
  - o MX471B
    - XCP, support of MAX_DLC_REQUIRED in dbc (XCP)
    - Streaming of CAN decoder and CAN raw improved
  - o CX27B, EtherCAT:
    - Additional engineering unit available
  - o MX410(B), MX403B:
    - Peak min/max has to be changed when sign of user scaling changes
    - Added error handling for non-linear user scaling is not supported by peak unit.
  - o MX840B:
    - HW version >= 3.20: Power Reduction of 1.4 W when all connectors are set to IEPE but no sensor is connected and - 0.9 W when all connectors are set to voltage (factory setting)
  - o MX238B, MX430B:
    - Bug fix switching output rate while background AutoAdjust routine is active
- **Known Issues**
  - o none

PC Software
- MX Assistant 4.x in preparation, will be launched together with CX27C
- catmanAP 5.2 in preparation

Documentation
- **New**
  - o SCM-TCx leaflet: thermo mini to SubHD15
  - o Release note now comply to IATF 16949

Version Chart

QuantumX / SomatXR for free PC software (DVD and download)	Version 4.61 (* = has been updated)
MX Assistant	4.61
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	5.0.2 (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…	4.12.14 *
SomatXR Data Recorder CX23-R	2.0.1
SomatXR MX840B-R, MX1615B-R, MX1601B-R, MX1609KB-R, MX411B-R, MX471B-R, MX460B-R	4.12.14 *

Commercial PC software (DVD and download)	Version
catman®EASY / AP	5.1
catman®Enterprise	7.0
HBM Common LabVIEW™ driver	3.0
HBM Common API driver for Visual Studio .NET	3.1
QuantumX CANape driver	4.1.3

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 (10/100/1000 MBit)
  - Optional FireWire 1394b adapter (PC-CARD, expressCARD/34, PCI, PCIexpress or Thunderbolt).