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Version 1.4.8

Thank you for choosing HBM for your test, analysis and measurement task.

This document shows the released product package of SomatXR. Please always check whether an updated version is available: <http://www.hbm.com>.

Please note that the firmware has been optimized. We recommend installing the latest firmware on all existing modules.

What's new?

Modules

- Data Processor CX23-R with 16 or 64 GB memory (1-CX23-R-xx-2)
- PTP Ethernet Switch EX23-R (1-EX23-R)

Firmware

- CX23-R Firmware Version 1.4.8 (Build 1185)
 - First official release
- MX Module Firmware Version 4.2.8
 - Included in CX23-R firmware to update from the Web Interface

Accessories

- **New Accessories**
 - NTX003-2: AC/DC power supply unit (24 V, 120 W)
 - KAB2110: Power supply cable (CX23-R to MX module)
 - KAB2115: Power supply cable (low loss) with exposed wires
 - CASEMOUNT: Mounting brackets
 - KAB2100: Ethernet cable (CX23-R / EX23-R to MX module)
 - KAB2106: Ethernet cable (CX23-R / EX23-R to PC / access point)
 - KAB2107: Ethernet cable (CX23-R to EX23-R)
 - KAB183: Push-pull sensor cable
 - KAB184: Break away sensor cable
 - KAB2101: Digital I/O cable with exposed wires
 - KAB2102: GPS/AUX adapter (CX23-R to EGPS-5Hz)
 - KAB2104: CAN adapter (CX23-R to SomatCR KAB292)
 - KAB2108: GPS/AUX cable with exposed wires
 - KAB2109: CAN cable with exposed wires
 - KAB2117: Full-bridge adapter (to eDAQ M8 connector)
(4 wire - no sense line)
 - KAB2118: Quarter-bridge adapter (to eDAQ M8 connector)
(3 wire - no sense line)
 - KAB2119: Voltage adapter (to eDAQ M8 connector)



Documentation

- **New Documents**

- CX23-R Data Sheet
- EX23-R Data Sheet
- CX23-R & EX23-R User Manual
- SomatXR Safety Manual
- CX23-R Quick Start Guide
- EX23-R Quick Start Guide

- **Modified Documents**

- MX1601B-R Data Sheet (version 2.0)
- MX1609KB-R Data Sheet (version 2.0)
- MX1615B-R Data Sheet (version 2.0)
- MX Modules User Manual (version 2.0)
- MX Modules Quick Start Guide (version 1.1)
- SomatXR Accessories Data Sheet (version 2.0)



Notes about the CX23-R firmware v1.4.8

- **Visualization persistence**

In this firmware version defined plots in the visualization panel will disappear if any setups are changed or if the user is logging out. Storing of the visualization layout is planned for a later release.

- **Supported web browsers**

Although the CX23-R firmware does not restrict the user from using any web browser, it is strongly recommended that either Microsoft IE11 or a recent version of Google Chrome be used with the CX23-R. Using other browser types or versions may be problematic in regard to the run time displays and in regard to SIE file downloads. Quality control currently performs regression tests using only these recommended browsers.

- **Support of cameras**

Cameras are not yet supported. The interface for these is not robust yet and so we have inhibited cameras from being discovered in the hardware discovery process (i.e., even if a camera is connected to a CX23-R expansion port or an EX23-R port, it will not appear in the GUI “available channels” tree view).

- **Support of TEDS**

Although there is a TEDS column in the Channels spreadsheet view, TEDS sensors are not supported in this release.

- Tests may fail to start on a “first sample timestamp is after test start time” error. This has been encountered only rarely. Also, occasionally, the SIE data for MX module channels can have some “overflow” data at the start of the test (for no more than a fraction of a second typically). Overflow data has a value greater than 1.0E+015. To circumvent these problems, the user can set the “Test Start Delay” parameter (available in the Setup Maintenance window) to 3 seconds (or possibly more if needed).
- The user interface does yet support “progress” or “system busy” indicators. For tasks that take more than a few seconds to complete, this can result in user uncertainty (e.g., “Did I click on the wrong button, or is the system hung?”). In some cases, the user interface will report a “loss of connectivity”. In other cases the web browser may alert the user that the server is unresponsive and suggest killing the session. This has been encountered when importing very large CAN DBC database files, and also when working with SXR files that have several hundred channels.
- Currently, when an SIE data collection test run is started, all MX modules connected at that time are considered part of the test – even if no channels from one or more of the MX modules is used in the test. If one of the unused modules is disconnected or powered down, the test will stop on an error. As such, it is currently recommended that MX modules not used in the test be powered down or disconnected prior to starting the test.
- There is no limit to the number of channels that can be defined in an SXR setup file and no limit on the aggregate sample rate for all channels. As such, the user can define tests that the CX23-R will not be able to keep up with. This is not an issue in itself. However, the current behavior when the system does get into this situation is suboptimal. The error messages may not clearly indicate the reason for the test stopping and the system may be left in a non-operational state. Always reboot or power cycle the CX23-R if this is encountered.
- Downloads of SIE files may be interrupted on some web browsers. Regardless of the web browser being used, users are strongly advised to always ensure that the SIE download has fully completed before deleting the SIE file from the CX23-R storage. (Note that this is not a known problem with the recommended web browsers, but due to the possible significant repercussions of losing part of an SIE file, we suggest that the user be overcautious in this regard).