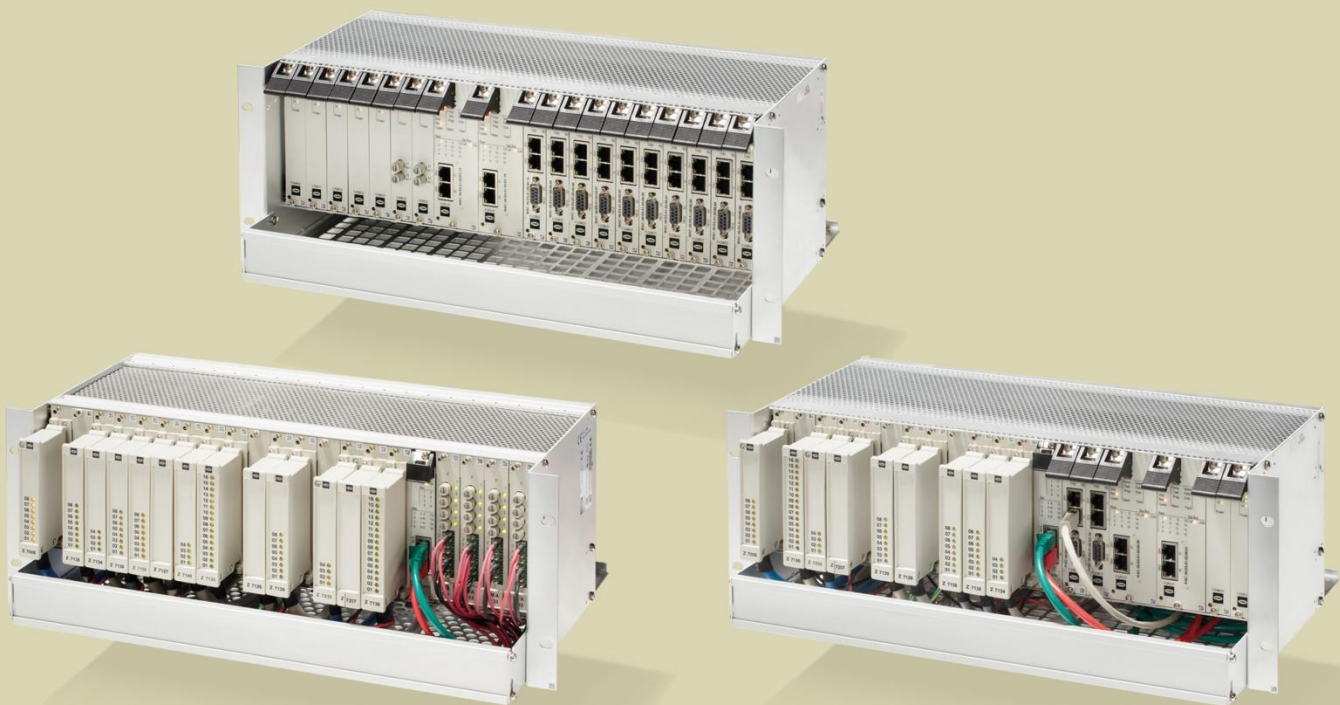




HIQuad[®]X

Release Notes V13.2



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Table of Contents

1	HIQuad X Operating System Version V13.2	5
2	New Functions	6
3	Firmware Improvements	7
4	Firmware Restrictions	8
5	References	9
5.1	Zstandard License Terms	9
5.2	Apache License	9
	Appendix	11
	Index of Tables	11

1 HIQuad X Operating System Version V13.2

This chapter describes the improvements, new functions and restrictions of the following HIQuad X operating system versions (V13.2) compared to the previous ones:

OS version	File name	Description
V13.2	HQXCPU51_HA1_OS_V13.2.ldb	Safety-related operating system for F-CPU 01 processor modules
V13.2	HQXCOM_HA1_OS_V13.2.ldb	Operating system for F-COM 01 communication modules

Table 1: Modified Operating System Versions

The operating system versions not mentioned in Table 1 are listed in the previous release notes.

HIMA recommends upgrading all modules to the current operating system version.

2 New Functions

- The COM operating systems offer OPC UA Server functionality.
The CPU operating systems have been extended with an interface for the OPC UA Server to enable access to system events.

The OPC UA Server functionality requires its own license.

3 **Firmware Improvements**

- After a reload, the SOE function did not report the first occurrence of a scalar event threshold being exceeded to the X-OPC Server. This problem was fixed in processor module operating system V13 (HIMatrix V17).

4 Firmware Restrictions

- In very seldom cases, if one or more communication protocols such as Modbus or ComUserTask are used under load control and the controller or COM module changes from RUN to STOP, the COM module may reboot.
- Restriction with respect to reload licenses:
Features that are used in a COM module with a demo license, cannot be activated by performing a reload of the controller (CPU-Module) with a full license. The message displayed in the license management of the CPU module reports that a regular license is available, but a DEMO license is in use. This behavior occurs if no reload or cold reload is performed for the COM module itself.
The full license is only used and properly reported after a restart of the controller (CPU module), a reload or cold reload of the COM module.
- In redundant systems, only the value 1 may be selected for *Prio A&E*, or problems may occur during synchronization.

5 References

- HIQuad X system manual (HI 803 211 E).
- HIQuad X safety manual (HI 803 209 E).
- Communication manual (HI 801 101 E).

5.1 Zstandard License Terms

The CPU operating systems contain a Zstandard decompression algorithm provided with the following license terms:

BSD License

For Zstandard software

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5.2 Apache License

The COM operating system includes an SSL/TLS library Mbed TLS licensed by ARM Limited.

<http://www.apache.org/licenses/LICENSE-2.0>

Appendix

Index of Tables

Table 1:	Modified Operating System Versions	5
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Release Notes

HI 803 245 E

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