



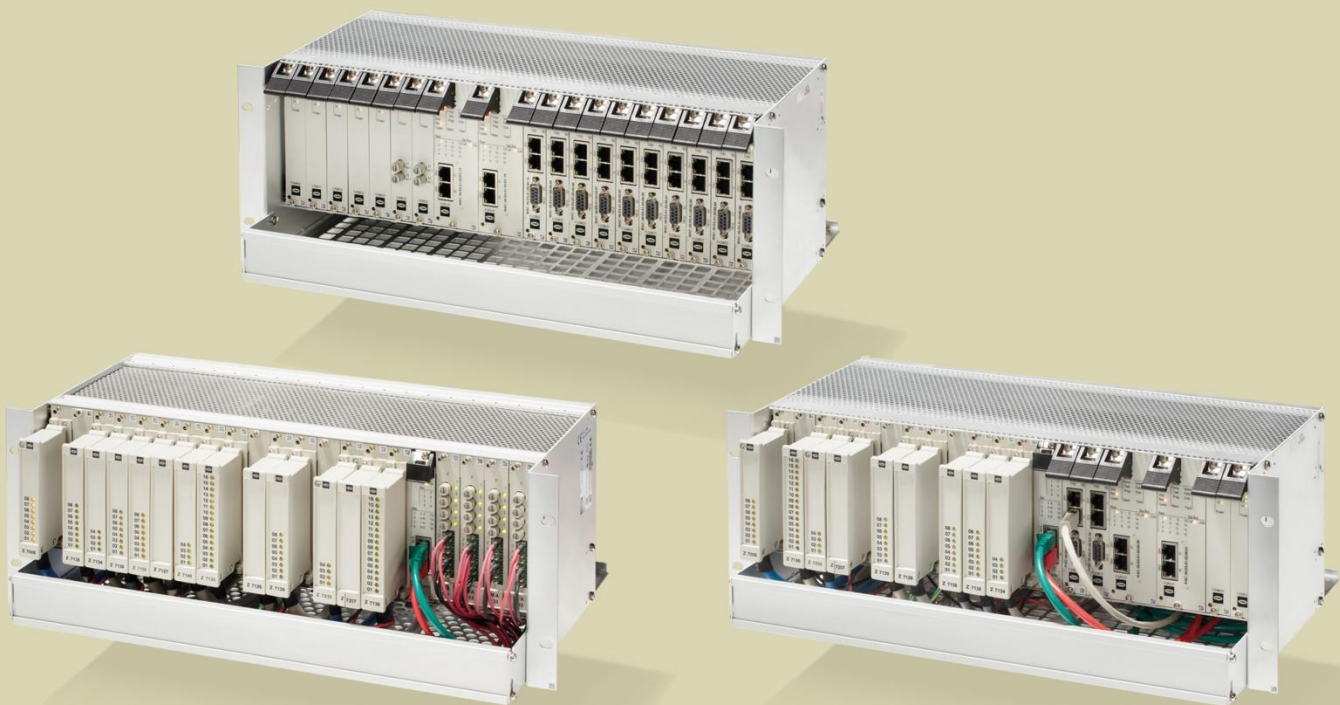
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# HIQuad<sup>®</sup>X

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## Release Notes

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## Contact

HIMA Paul Hildebrandt GmbH

P.O. Box 1261

68777 Brühl, Germany

Phone: +49 6202 709-0

Fax: +49 6202 709-107

E-mail: [info@hima.com](mailto:info@hima.com)

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# 1 HIQuad X Operating System Version V12

This main chapter describes the improvements and new functions of the following operating system versions:

OS version	File name	Description
V12.x	HQXCPU51_HA1_OS_V12.x.ldb	Safety-related operating system for F-CPU 01 processor modules
V12.x	HQXCOM_HA1_OS_V12.x.ldb	Operating system for F-COM 01 communication modules

Table 1: Current Operating System Versions

## 1.1 Compatibilities

### 1.1.1 Compatibilities with Previous Versions

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

### 1.1.2 New Functions

The new functions described in this chapter require the use of SILworX V11 and higher.

## 1.2 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 concerning the reload licenses  
If only a demo license is available to load a feature required by a module, it may occur that the feature is not updated properly when a reload with a regular license is performed. The message displayed in the license management of the CPU module indicates that a regular license is available, but a demo license is being used.  
This behavior occurs when the module itself is not subject to reload or cold reload.  
The new license is only used and properly reported after a new restart, reload or cold reload of the module.
- Restriction concerning the event transmission priority  
In redundant systems, only select the value 1 for the Events priority, or problems may occur during synchronization.

### 1.3 Zstandard License Conditions

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

#### *BSD License*

For Zstandard software

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**Appendix**

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## Release Notes

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### HI 803 243 E

For further information, please contact:

**HIMA Paul Hildebrandt GmbH**

Albert-Bassermann-Str. 28


68782 Brühl, Germany

Phone: +49 6202 709-0

Fax +49 6202 709-107

E-mail: [info@hima.com](mailto:info@hima.com)

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