

Release Notes

ctrlX CORE^{plus}

Voltage Supply XC811201

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The specified data only serves to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. Please note that our products are subject to a natural process of wear and aging.

DC-AE/PAX (TaDo)/(PiaSt)

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1 About this documentation

Editions of this documentation

Edition	Release date	Note
01	2025-11	ctrlX COREplus, Voltage Supply XC811201 Version XC811201-V1.6.1

Further information

- See ➔ [ctrlX CORE](#)

2 Important information

2.1 Product information

For the latest information on our products, go to ➔ <https://www.boschrexroth.com>.

For current security advisories, please refer to ➔ <https://psirt.bosch.com/security-advisories/>

The ctrlXCORE^{PLUS} uses EtherCAT® technology.

EtherCAT® is a registered trademark and patented technology licensed by the Beckhoff Automation GmbH, Germany.

EtherCAT is an open, internationally standardized standard and developed further by the EtherCAT Technology Group (ETG).

2.2 Firmware versioning

The firmware is versioned according to the following naming scheme:

MAJOR.MINOR.PATCH

- **MAJOR:**
Is increased in case of incompatible changes or function extensions. It is required to download a new version of the ESI device description file.
- **MINOR:**
Downward-compatible functional changes or bugfixes. It can be required to download a new version of the ESI device description file. Please check if this is necessary. The MINOR version number is always integer for released versions. Odd-numbered MINOR version numbers refer to test version which have not finally been released.
- **PATCH:**
Downward-compatible bugfixes. It can be required to download a new version of the ESI device description file. Please check if this is necessary.

2.3 Firmware

The following firmware versions were provided prior to the publication of these release notes:

- 1.0.0
- 1.4.0
- 1.6.1

It is not possible to downgrade to a version lower than 1.6.1. If you need a downgrade, please contact our customer service.

You can read out the firmware version of the voltage supply by selecting, for example, "XC811201" in ctrlX I/O Engineering. In the "CoE" area, you will find the firmware version under object 100A(hex).

2.4 Firmware update via FoE

⚠ WARNING

Risk of injury due to unsafe conditions of the machine

The machine has to be in a safe state before an update.

The module's firmware can be updated via FoE. New firmware files can be found at ➔ www.boschrexroth.com/mediadirectory by searching for the module type code, XC811201.

The module have to be in state BOOTSTRAP. It is not necessary to enter a password or a file name.

Following a successful update, restart the module. To do this, temporarily disconnect the power supply of the control. The newly loaded firmware is started upon the next start.



Do not switch off the power supply to the control during the file transfer.



The new firmware version may require an updated description file in engineering in order to be able to use new functions. Details can be found in the release notes.

Check whether the latest version of the description file is installed.

2.4.1 ctrlX I/O Engineering

Within ctrlX I/O Engineering, the required user interface is only displayed for modules supporting a firmware update.

1. ➔ Switch the EtherCAT master of the ctrlX CORE to the "INIT" state.
2. ➔ First change to the active state in ctrlX I/O Engineering by enabling "Show online data".
 - ➔ This is the requirement to update the firmware. The corresponding user interface tab is only displayed if the requirement is met.
3. ➔ To open the device editor, double-click on the module in the ctrlX I/O Engineering device tree and select the "FoE". tab.
4. ➔ In the "Download" section, select the firmware file (*.EFW) under "Local file name". Ensure that this is the correct file for the module to be updated.
5. ➔ Check if the option "Required state" is active under "Details" and that BOOTSTRAP is selected.
6. ➔ Use the "Download" button to start the firmware update.

3 XC811201-V1.6.1

3.1 Note on the new functions

NOTICE

To be able to use the new functions of this version, use the latest version of the device description file (revision 00010100(hex)).

Check and update the description file, if necessary.

EtherCAT configurations created with this revision require that the power supply module has been updated to at least firmware version 1.6.1.

NOTICE

It is not possible to downgrade to a version lower than 1.6.1. If you need a downgrade, please contact our customer service.

3.2 New functions

3.2.1 Feature 607923: Activating the device identification function

Description

It is now possible to write the device ID (configured station alias) to the EEPROM (offset 0x0012) and to read it from there.

3.3 Resolved defects and modifications

3.3.1 Bug 637384: Poor responsiveness with fast bus cycle times ≤ 1 ms

Description

With fast cycle times, especially below 1 ms, the responsiveness when reading CoE objects was poor.

Bugfixing

Optimizing the firmware to support fast cycle times.

3.3.2 Bug 882743: Improved error response during firmware update

Description

If it was tried to update the firmware in another state than BOOTSTRAP, no error message is sent and the module did not respond to the requests of the master. Problems could occur when downloading corrupt update files.

Bugfixing

Improved error handling during the update process. Please note that this update should also only be carried out in the BOOTSTRAP state, as the error correction only takes effect following an update and restart.

3.3.3 Bug 928187: Incorrect reaction to unsupported object accesses

Description

Incorrect reactions occurred when objects were not supported.

Bugfixing

The EtherCAT application has been revised and updated in order to react correctly to all object accesses and generally increase stability. As a result of the update, object names have changed or objects have been added in various places.

4 XC811201-V1.4.0

4.1 Resolved defects and modifications

4.1.1 Bug 442157: Improving the EtherCAT communication via LVDS

Bugfixing

The LVDS data transfer stability was increased to avoid incorrectly transferred packages.

4.1.2 Bug: Erroneous reboot after firmware update

Description

If a transition from BOOTSTRAP to INIT occurred after a successful update, the control was hard-rebooted.

Bugfixing

The restart has to be carried out manually to avoid an unwanted state.

5 Service and support

Our worldwide service network provides an optimized and efficient support. Our experts provide you with advice and assistance. You can contact us **24/7**.

Service Germany

Our technology-oriented Competence Center in Lohr, Germany, is responsible for all your service-related queries for electric drive and controls.

Contact the **Service Hotline** and **Service Helpdesk** under:

Phone: **+49 9352 40 5060**

Fax: **+49 9352 18 4941**

Email: [↗ service.svc@boschrexroth.de](mailto:service.svc@boschrexroth.de)

Internet: [↗ http://www.boschrexroth.com](http://www.boschrexroth.com)

Additional information on service, repair (e.g. delivery addresses) and training can be found on our internet sites.

Service worldwide

Outside Germany, please contact your local service office first. For hotline numbers, refer to the sales office addresses on the internet.

Preparing information

To be able to help you more quickly and efficiently, please have the following information ready:

- Detailed description of malfunction and circumstances
- Type plate specifications of the affected products, in particular type codes and serial numbers
- Your contact data (phone and fax number as well as your e-mail address)

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