BERGHOF AUTOMATION GMBH

EU Data Act Technical Information

Berghof i.MX6 and Pi control platform

BERGHOF

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Change log

Version	Date	Subject
1.0	30.03.206	First Version

Contents

1. EU Data Act Technical Information

1.2 General Information

The EU Data Act has been in effect since September 12, 2025. Its aim is to enable the use of data from connected products and associated services across different providers. This means that users' rights are strengthened, as existing data must be made available (data sharing with users.)

The data can be divided into the following categories:

Product data
Data from connected services
Product data and connected service data generated during use

Manufacturer/data owner: provides readily available data
Data directly accessible

1.3 Scope

This document is valid for the following product series:

- B-Nimis MC-PI Pro
- B-Nimis MC-Pi Prime
- B-Nimis MC-Pi Plus
- B-Fortis CC-Pi Slim
- B-Fortis CC-Prime
- B-Primis DC-Pro
- B-Primis DC-Prime
- B-Primis DC-Plus
- B-Primis DC-Pi Prime

1.4 Details

The following data is available for these products in accordance with the EU Data Act:

A.	Product data	Yes
B.	Product data generated during use (diagnostic information)	Yes
C:	Data through associated services	No

The system information and diagnostic data (A and B) available for listed Berghof devices are described in the Berghof system manual. The system information and diagnostic information available in CODESYS can be accessed via CODESYS HELP.
The following information is available and can be read via the devices' web interface

1. System Information
2. Application information
3. PLC diagnostic logging information
4. System log
5. Diagnostic information regarding Ethernet communication
6. Diagnostic information regarding CAN communication
7. Diagnostic information regarding memory usage

Additionally, a system dump can be performed to export the information from 1–7

1.5 Product Data

1.5.1 Web-Interface Menu item "System Info"

On this page you will find all the important information about the controller.

Option	Example	Explanation
Part-Name	B-Nimis MC-PI Prime S02	Product name of the controller.
Device ID	S-01030302-0200-00025	Combined product and serial number
Firmware-Version	1.3.2	Version of the firmware currently installed on the controller.
Codesys RTS Version	3.5.18.40	Version of the CODESYS V3 Runtime currently running on the controller. The first two digits stand for the CODESYS main version, the third for the service pack, the fourth for the patch level, and the fifth digit for the hotfix level (if any).
Installed options / Licenses	(S104) ETHERCAT-MASTER (S114) WEBVISU	All licenses installed on the controller. For some libraries, e.g. Modbus TCP requires additional licenses that may need to be installed.
System operation Time	1612 hours 0 min	Total running time of the controller since the first commissioning.
System Uptime	0 day 0 hour 19 min	Run time of the controller since the last start of the operating system.
CPU Temperature	Cur: 49.7°C, Timestamp: 05/25/23 : 10:09:37	Shows the current, max. and min. temperatures measured directly on the CPU.
Sensor Tempearture	Cur: 50.1°C, Timestamp: 05/25/23 : 11:00:51	Shows the current, max. and min. temperatures measured inside the PLC case.
Memory	total: 1860 MB available: 1536 MB	Total and available amount of RAM on the PLC
Flashmemory State	MLC: 20 - 30% device lifetime used preEOL: normal (1, consumed less than 80% of reserved blocks)	Total number of full write cycles on available flash memory as well as memory health information

1.5.2 Web-Interface Menu item "Application Info"

On this page you will find information about applications that are located on the controller.

Characteristic	Explanation
Applicationname	Name of the application must be unique. Can be changed in the CODESYS V3 development environment by changing the name of the "Application" object.
Status	The status of the application. AS_RUN: Application is running. AS_STOP: Application is not running. Manual stop or error during execution.
Projectname	The project information specified in the CODESYS V3 development platform is displayed. To change this information, open the menu "Project" in CODESYS V3 in the menu bar and select the menu item "Project information".
Projectauthor	
Projectversion	
Projectprofile	
Projectdescription	
Exception-ID	Indicates if the application is in an error state. Exception ID 0x00000000 means that there is no error.
Exception	Name of the error state.

1.6 Diagnostic Information

1.6.1 Webinterface Menu item "PLC Log"

You can see the log of the CODESYS V3 Runtime on this page. The data recorded in the log includes:

→ Information about the used CODESYS V3 version used and activated licenses.
→ The used system libraries including version.
→ Network information.
→ CODESYS V3 Events such as logging in or logging out of users or downloading applications.
→ Error cases or exceptions that occur in the CODESYS V3 Runtime.

1.6.2 Webinterface Menu item "System Log"

This page is divided into two sections:

→ In the "System Log" area, the system log is displayed, which can be found in the file system under /var/log/messages. It contains general information about the operating system and running services and programs. For example, accesses to the web interface are recorded by the lighttpd web server.
→ The "System Diag" area records interactions between the system and the CODESYS V3 Runtime. Entries contain, for example, information about changes to the retain memory, states of the CODESYS V3 Runtime, boot and power fail times.

1.6.3 Webinterface Menu item "Ethernet"

This page provides information about the network interfaces of the controller. In contrast to the menu item "Network" (see chapter **Fehler! Verweisquelle konnte nicht gefunden werden.**), no settings can be

made. However, there is detailed information such as MAC address, set IP, and received and sent packets and data quantities

1.6.4 Webinterface Menu item "CAN"

Information on the CAN interfaces can be viewed on this page. Information about the BUS status can be read out via an internal Error Frame counter:

can state : ERROR_ACTIVE ➔ CAN active (<96 Error Frames)
can state : ERROR_WARNING ➔ CAN active (<128 Error Frames)
can state : ERROR_PASSIVE ➔ CAN inactive (<256 Error Frames)
can state : ERROR_BUS_OFF ➔ CAN off (>=256 Error Frames)
can state : ERROR_SLEEPING ➔ CAN in Standby
can state : STOPPED ➔ CAN stopped

In addition, the set baud rate, as well as received and transmitted packets, data volumes and the total number of Error Frames received can be displayed.

1.6.5 Webinterface Menu item "Storage"

Information about the memory status of the controller can be viewed on this page. The most important information for the user is the memory status of the flash memory (marked in green here) and the status of the external SD card (marked in blue here) if one is integrated.
If one memory stick or several USB memory sticks via Hub should be connected, these are recognizable in the "Mounted on" column with the entry "/media/usbx" (marked here in orange). The x stands for mount order (with a stick normally number 1).

Filesystem	Size	Used	Available	Use%	Mounted on
ubi0_0	47.5M	18.9M	28.6M	40%	/
devtmpfs	114.3M	0	114.3M	0%	/dev
/dev/ubi0_1	47.5M	41.3M	6.2M	87%	/usr
none	196.0M	88.0K	195.9M	0%	/tmp
none	122.5M	0	122.5M	0%	/media
none	122.5M	164.0K	122.3M	0%	/run
none	122.5M	68.0K	122.4M	0%	/var/log
none	122.5M	164.0K	122.3M	0%	/var/run
none	122.5M	0	122.5M	0%	/var/lock
none	122.5M	0	122.5M	0%	/var/tmp
/dev/ubi1_0	107.4M	5.8M	101.6M	5%	/flash
/dev/ubi1_0	107.4M	5.8M	101.6M	5%	/home/plc
/dev/ubi1_0	107.4M	5.8M	101.6M	5%	/usr/local
/dev/ubi1_0	107.4M	5.8M	101.6M	5%	/var/cache
/dev/ubi1_0	107.4M	5.8M	101.6M	5%	/var/spool
/dev/ubi0_1	47.5M	41.3M	6.2M	87%	/etc
/dev/mmcblk0p1	977.1M	4.0K	977.1M	0%	/media/sd
none	196.0M	88.0K	195.9M	0%	/var/www/tmp
/dev/sda1	7.7G	1.4G	6.3G	18%	/media/usb1

1.6.6 Webinterface Menu item "System Dump"

On this page, an image file of the entire diagnostics area of the controller can be created. This function is used for analysis of an application or the controller in case of an error. It is recommended to create the image file immediately after the error occurs, without prior restart. Creating the image file can take several minutes. Once the file has been created, it is offered for download by the browser. Save the file and send it to Berghof Support for analysis.