

System SLIO

| CompList | Manual

HB300 | | CompList | en | 26-32

System SLIO Compatibility list



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1 General

1.1 About this manual

Objective and contents

- Due to system limitations, some modules are not supported by head modules. You can find a list of supported modules in the corresponding compatibility lists.
- The manual is targeted at users with good basic knowledge in automation technology.
 - The manual does not replace sufficient basic knowledge of automation technology or sufficient familiarity with the specific product.
 - The manual consists of chapters. Each chapter describes a completed topic.
 - For guidance, the manual provides:
 - An overall table of contents at the beginning of the manual
 - References with pages numbersYou can usually return to the previous view using `[Alt]+[←]`.

Validity of the documentation

Products System SLIO Modules	see
Compatibility - Interface modules - IM 053-xxxxx	↪ ‘Interface modules - IM 053-xxxxx’...page 12
Compatibility - Interface modules - IM 06x-1xA0x	↪ ‘Interface modules - IM 06x-1xA0x’...page 14
Compatibility - Safety modules - 02x-1SDxx	↪ ‘Safety modules - 02x-1SDxx’...page 15
Compatibility - CPUs - CPU 01x-xxxxx	↪ ‘CPUs - CPU 01x-xxxxx’...page 16
Isochronous mode - IM 053-xxxxx and CPU 01x-xxxxx	↪ ‘Head modules - IM 053-xxxxx and CPU 01x-xxxxx’...page 17

Documentation

- In the context of the use of the pertinent Yaskawa product, the manual is to be made accessible to the pertinent qualified personnel in:
- Project engineering
 - Installation department
 - Commissioning
 - Operation

Icons and headings

Important passages in the text are highlighted by following icons and headings:

**DANGER**

- Immediate danger to life and limb of personnel and others.
- Non-compliance will cause death or serious injury.

**CAUTION**

- Hazardous situation to life and limb of personnel and others. Non-compliance may cause slight injuries.
- This symbol is also used as warning of damages to property.

**NOTICE**

- Designates a possibly harmful situation.
- Non-compliance can damage the product or something in its environment.



Supplementary information and useful tips.

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Download Center

By entering the product order number in the '*Download Center*' at www.yaskawa.eu.com, the pertinent manuals, data sheets, declarations of conformity, certificates and other helpful information for your product can be found.

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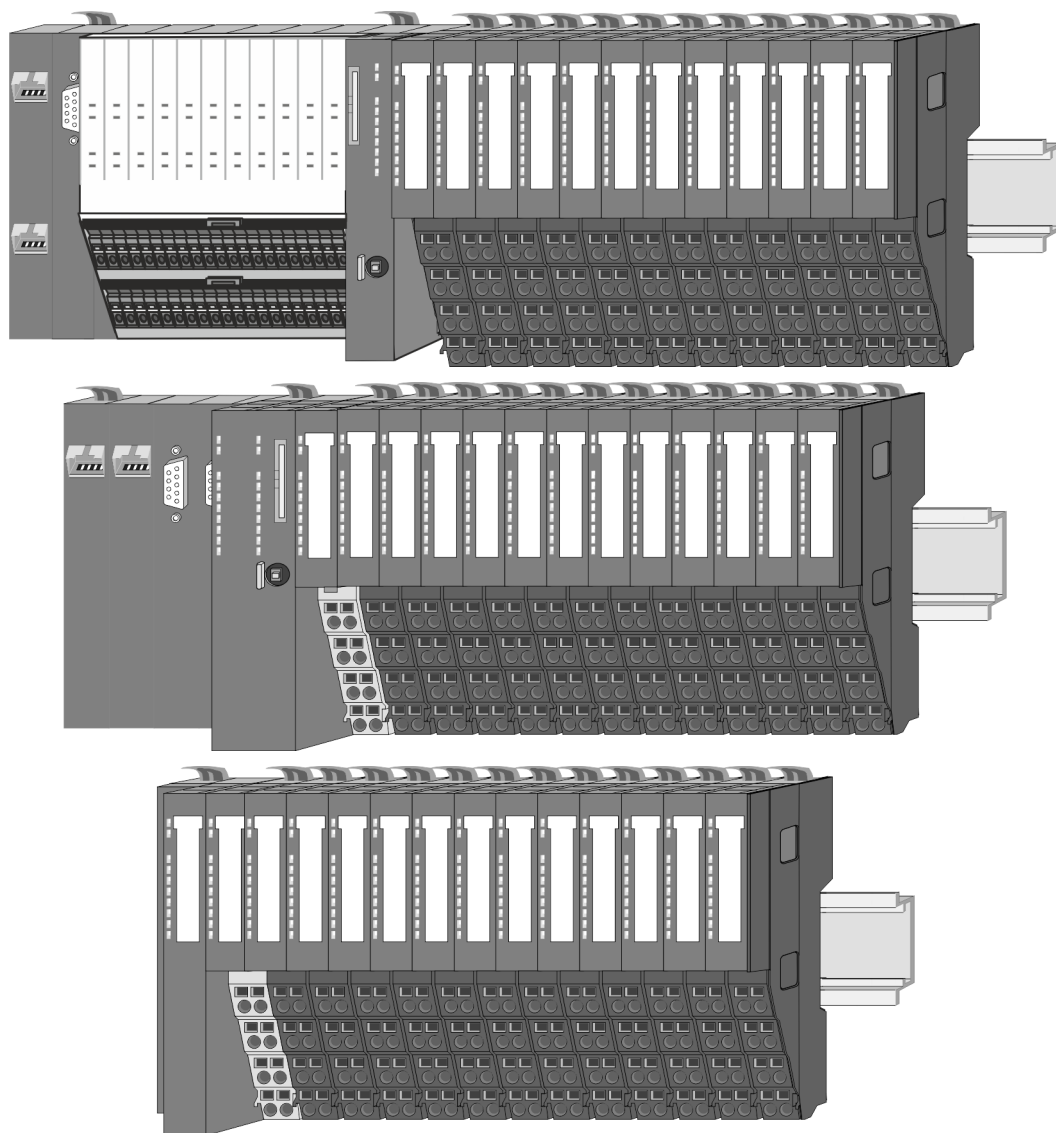
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2 Basics

2.1 Overview

The System SLIO is a modular automation system for assembly on a 35mm profile rail. By means of the periphery modules with 2, 4, 8 and 16 channels this system may properly be adapted matching to your automation tasks. The wiring complexity is low, because the supply of the DC 24V power section supply is integrated to the backplane bus and defective modules may be replaced with standing wiring. By deployment of the power modules in contrasting colors within the system, further isolated areas may be defined for the DC 24V power section supply, respectively the electronic power supply may be extended with 2A.



2.2 Components

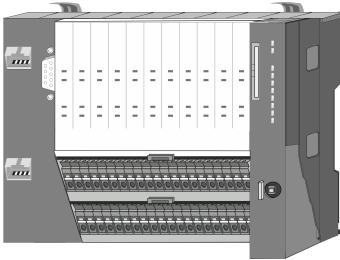
- CPU (head module)
- Bus coupler (head module)
- Line extension
- 8x periphery modules
- 16x periphery modules
- Power modules
- Accessories



CAUTION

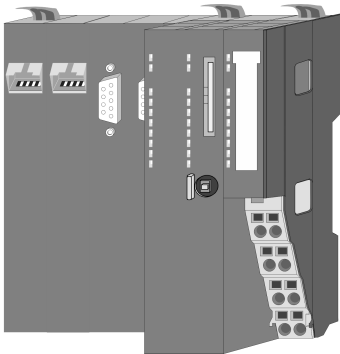
Only Yaskawa modules may be combined. A mixed operation with third-party modules is not allowed!

CPU 01xC



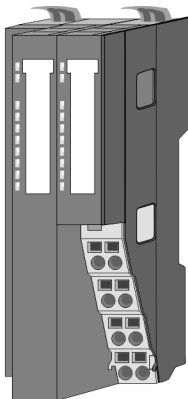
With the CPU 01xC electronic, input/output components and power supply are integrated to one casing. In addition, up to 64 periphery modules of the System SLIO can be connected to the backplane bus. As head module via the integrated power module for power supply CPU electronic and the I/O components are supplied as well as the electronic of the periphery modules, which are connected via backplane bus. To connect the power supply of the I/O components and for DC 24V power section supply of via backplane bus connected periphery modules, the CPU has removable connectors. By installing of up to 64 periphery modules at the backplane bus, these are electrically connected, this means these are assigned to the backplane bus, the electronic modules are power supplied and each periphery module is connected to the DC 24V power section supply.

CPU 01x



With this CPU 01x, CPU electronic and power supply are integrated to one casing. As head module, via the integrated power module for power supply, CPU electronic and the electronic of the connected periphery modules are supplied. The DC 24V power section supply for the linked periphery modules is established via a further connection of the power module. By installing of up to 64 periphery modules at the backplane bus, these are electrically connected, this means these are assigned to the backplane bus, the electronic modules are power supplied and each periphery module is connected to the DC 24V power section supply.

Bus coupler



With a bus coupler bus interface and power module is integrated to one casing. With the bus interface you get access to a subordinated bus system. As head module, via the integrated power module for power supply, bus interface and the electronic of the connected periphery modules are supplied. The DC 24V power section supply for the linked periphery modules is established via a further connection of the power module. By installing of up to 64 periphery modules at the bus coupler, these are electrically connected, this means these are assigned to the backplane bus, the electronic modules are power supplied and each periphery module is connected to the DC 24V power section supply.

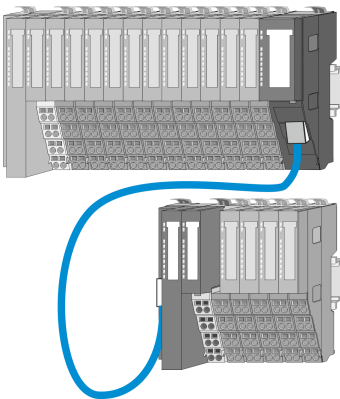
Device description file

Fieldbus-specific device description files are required for the configuration and integration of System SLIO modules into a higher-level header module. These files contain all the necessary information about the properties, parameters, and process data structures of the modules. Depending on the field bus system or coupler used, the following file types are available:

- GSD (.gsd) for PROFIBUS
- GSDML (.xml) for PROFINET, CPU and CPU as I-Device
- ESI (.xml) for EtherCAT
- EDS (.eds) for CANopen and Ethernet/IP

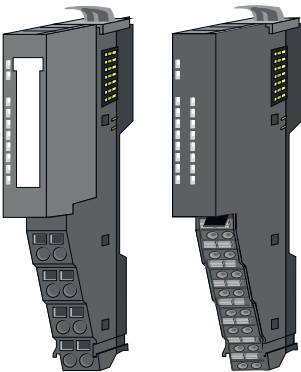
In the 'Download Center' at www.yaskawa.eu.com, via product order number the corresponding device description files for your product can be found.

Line extension



In the System SLIO there is the possibility to place up to 64 modules in on line. By means of the line extension you can divide this line into several lines. Here you have to place a line extension MainDevice at each end of a line and the subsequent line has to start with a line extension SubDevice. MainDevice and SubDevice are to be connected via a special connecting cable. In this way, you can divide a line on up to 5 lines. Depending on the line extension, the max. number of pluggable modules at the System SLIO bus is decreased accordingly. To use the line extension no special configuration is required.

Periphery modules



The periphery modules are available in the following 2 versions, whereby of each the electronic part can be replaced with standing wiring:

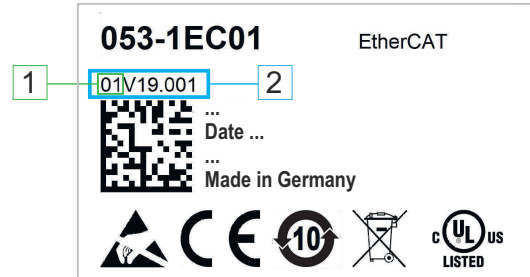
- 8x periphery module for a maximum of 8 channels.
- 16x periphery module for a maximum of 16 channels.

2.3 Product version and hardware revision

2.3.1 Product version

Product version on seal sticker

The 'Product version' [2] is located on the seal sticker on the packaging. The first two digits of the product version identify the 'Hardware revision' [1].



- [1] Hardware revision
- [2] Product version

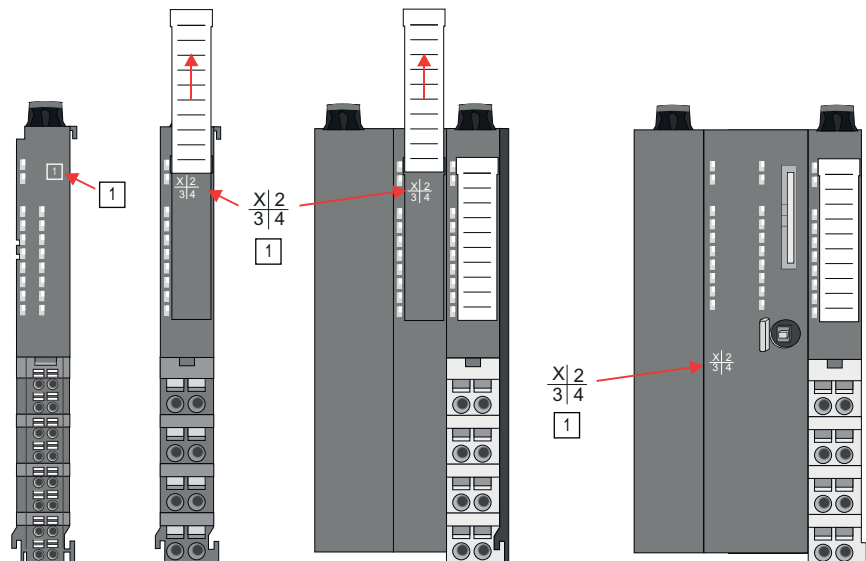
2.3.2 Hardware revision

Hardware revision via product version

The first two digits of the product version identify the 'Hardware revision'.

Hardware revision on the front

- The hardware revision version is printed on every System SLIO module.
- Since a System SLIO 8x peripheral module consists of a terminal and electronic module, you will find a hardware revision version printed on each of them.
- Authoritative for the hardware revision of a System SLIO module is the hardware revision of the electronic module. This is located under the labeling strip of the corresponding electronic module.
- Depending on the module type, there are the following 2 variants e.g. to indicate hardware revision version 1:
 - With current labelling, there is a [1] on the front.
 - With earlier labelling, the 1 is marked with 'X' on a number grid.



Hardware revision via web server

On the CPUs and some bus couplers, you can check the hardware revision version 'HW Revision' via the integrated web server.

2.4 Firmware version

Package bundle Pb... and Px...

- The firmware versions are provided in '*Packages*' as so-called "pkg files (e.g., Px000314.pkg) .
- In a CPU, several packages are combined into one '*Package bundle*' in a pkb file (e.g. Pb000333.pkb) .
- Both the bundle and package files are directly fixed to the hardware revision. When the hardware revision changes, the corresponding number of the associated pkg or pkb file changes.

Vx.x.x

Within the pkg or pkb file, the current firmware version is included in the format Vx.x.x.

3 Interface modules - IM 053-xxxxx

Interface modules - bus coupler



- Unlisted and not released System SLIO modules are not restricted to specific interface modules.
- For additional restrictions resulting from a specific operating mode, please refer to the corresponding manual.
In the 'Download Center' at www.yaskawa.eu.com, via product order number the corresponding manuals for your product can be found.
- Product versions (including device description files) released before January 1, 2019 are not be considered.
- Bug fixes in product versions (including device description files) that may require an update are not considered.
- Discontinued products are not considered.

From product version (PV), package bundle (Pb) and firmware version (FW) in the device description file of the System SLIO interface modules, following modules are supported:

Order no.	053-1IP01 PV / Px / FW	EDS	053-1ML00	053-1ML40	053-1MT01 PV / Px / FW	053-1PN01 PV / Px / FW	GSDML Cx000101
021-1BH00	✓	✓	-	✓	✓	✓	V306
022-1BH00	✓	✓	-	✓	✓	✓	V306
031-1CD28 ¹	-	-	-	-	-	01V15.006 Px000312 V1.2.1	V3012
031-1PA10	✓	✓	✓	✓	✓	✓	✓
042-1IO00	01V13.002 Px000325 V1.2.10	✓	-	-	-	01V15.002 Px000312 V1.1.1	V307
054-1BA00	✓	✓	-	✓	-	✓	✓
054-2BA10	✓	✓	-	✓	✓	✓	V308
054-1CB00	✓	✓	-	✓	-	✓	✓
054-1DA00	✓	✓	-	✓	-	✓	✓
060-1AA00	✓	✓	✓	✓	✓	✓	✓
061-1BA00	✓	✓	✓	✓	✓	✓	✓
060-1AA01	01V13.004 Px000325 V1.2.12	✓	-	✓	01V13.002 Px000326 V1.2.1	01V15.002 Px000312 V1.1.1	✓
061-1BA01	01V13.004 Px000325 V1.2.12	✓	-	✓	01V13.002 Px000326 V1.2.1	01V15.002 Px000312 V1.1.1	✓

✓: The product version can be used without restrictions.

- : Product version is not supported.

¹⁾ The limitations only apply to the isochronous operation. In free running mode, there are no limitations on the coupler firmware.

Order no.	053-1CA00 HW / Px / FW	053-1DP00 HW / Px / FW	GSD	053-1EC01 PV / Px / FW	ESI Cx000218
021-1BH00	✓	06V74.003 Px000261 V2.0.12	Cx000023/146 V259/V259	✓	V008
022-1BH00	✓	06V74.003 Px000261 V2.0.12	Cx000023/146 V259/V259	✓	V008
031-1CD28 ¹	-	-	-	01V18.007 Px000314 V2.3.4	V021
031-1PA10	-	✓	✓	✓	✓
042-1IO00	-	-	-	01V18.002 Px000314 V2.1.1	V010
054-1BA00	-	✓	✓	✓	✓
054-2BA10	-	-	-	✓	V014
054-1CB00	-	✓	✓	✓	✓
054-1DA00	-	✓	✓	✓	✓
060-1AA00	-	✓	✓	✓	✓
061-1BA00	-	✓	✓	✓	✓
060-1AA01	-	06V75.002 Px000261 V2.0.13	✓	01V18.004 Px000314 V2.2.1	✓
061-1BA01	-	06V75.002 Px000261 V2.0.13	✓	01V18.004 Px000314 V2.2.1	✓

✓: The product version can be used without restrictions.

- : Product version is not supported.

¹⁾ The limitations only apply to the isochronous operation. In free running mode, there are no limitations on the coupler firmware.
The IM 053-1CA00 does not support the module in any operating mode.

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➔ [‘Package bundle Pb... and Px...’...page 11](#)

➔ [‘Firmware version’...page 11](#)

4 Interface modules - IM 06x-1xA0x

Line extension



- Via the line extension, a module row can be split into up to 5 rows.
- Line extension modules are not considered in the listing of the integrated web page of the coupler or CPU respectively the allocation of the slots.
- To use the line extension no special configuration is required.

The line extensions 06x-1xA0x are supported by the following header modules:

System SLIO component	Order number	from version (PV / Pb/Px / FW)
CPU 013C	013-CCF0R00	01V17.003 Pb000265 V3.0.20
CPU 014	014-CEF0R01 014-CEF0M31	02V22.003 Pb000327
CPU 015	015-CEFPR01 015-CEFNR00	V3.0.20
CPU 017	017-CEFPR00	
CPU 019	019-CEFPM00	01V13.003 Pb000333 V3.0.20
PROFIBUS DP coupler	053-1DP00	06V75.002 Px000261 V2.0.13
EtherCAT SubDevice	053-1EC01	01V18.004 Px000314 V2.2.1
PROFINET IO device	053-1PN01	01V15.002 Px000312 V01.01.01
EtherNet/IP adapter	053-1IP01	01V13.004 Px000325 V01.212
MECHATROLINK-4 coupler	053-1ML40	HW: 01
Modbus/TCP server	053-1MT01	01V13.002 Px000326 V1.2.1

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5 Safety modules - 02x-1SDxx

System SLIO Safety modules 021-1SD00, 022-1SD00

From the specified hardware revision and firmware version onwards, the following bus couplers support the System SLIO safety modules 02x-1SD00 with hardware revision 3:

- 053-1DP00 - PROFIBUS-DP: || HW: 05 | FW V1.3.0 (Px000100) and from GSD file Cx000146 V2.2.3
- 053-1PN00 - PROFINET: || HW: 01 | FW: V1.1.7 (Px000120) and from GSDML file Cx000101 V1.1.6
- 053-1PN01 - PROFINET: || HW: 01 | FW: V1.0.2 (Px000312) and from GSDML file Cx000101 V3.0.3

To use PROFIsafe V2.6

- 053-1PN01 - PROFINET: from || HW: 01 | FW V1.3.1 (Px000312) Firmware V1.3.1 and from GSDML file Cx000101 V3.0.15

System SLIO Safety modules 021-1SD10, 022-1SD10

From the specified hardware revision and firmware version onwards, the following bus couplers support the System SLIO safety modules 02x-1SD10 with hardware revision 2:

- 053-1EC01 - EtherCAT: || HW: 01 | FW: V2.0.0 (Px000314) and from ESI file Cx000218 V005



To operate the FSoE modules, the IM 053-1EC01 must be in Enhanced mode. For more information on setting the operating modes, please refer to the IM 053-1EC01 manual.

6 CPUs - CPU 01x-xxxxx

CPUs



- Unlisted and not released System SLIO modules are not restricted to specific CPUs.
- System SLIO modules 02x-1SDxx are not supported.
- For additional restrictions resulting from a specific operating mode, please refer to the corresponding manual.
In the 'Download Center' at www.yaskawa.eu.com, via product order number the corresponding manuals for your product can be found.
- Product versions released before January 1, 2019 are not be considered.
- Bug fixes in product versions that may require an update are not considered.
- Discontinued products are not considered.

From product version (PV), package bundle (Pb) and firmware version (FW) or GSDML of the System SLIO CPU, following modules are supported:

Order no.	013-CCF0R00 PV / Pb / FW	014-CEF0R01 PV / Pb / FW	014-CEF0M31 PV / Pb / FW	015-CEFNR00 PV / Pb / FW	015-CEFPR01 PV / Pb / FW	017-CEFPR00 PV / Pb / FW	019-CEFP000 PV / Pb / FW	GSDML Cx000166
021-1BD80	✓	✓	✓	✓	✓	✓	✓	V247
021-1BF51	✓	✓	✓	✓	✓	✓	✓	V246
021-1BH00	✓	✓	✓	✓	✓	✓	✓	V241
021-1DF50	✓	✓	✓	✓	✓	✓	✓	V247
022-1BD80	✓	✓	✓	✓	✓	✓	✓	V247
022-1BH00	✓	✓	✓	✓	✓	✓	✓	V241
022-1BH50	✓	✓	✓	✓	✓	✓	✓	V247
031-1CD28 ¹	-	-	-	-	-	-	-	V248
031-1CF90	✓	✓	✓	✓	✓	✓	✓	V243
031-1PA10	✓	✓	✓	✓	✓	✓	✓	V230
042-1IO00	01V17.001 Pb000265 V3.0.16	02V22.001 Pb000327 V3.0.16	02V22.001 Pb000327 V3.0.16	03V32.001 Pb000328 V3.0.16	02V23.001 Pb000329 V3.0.16	02V34.001 Pb000330 V3.0.16	01V13.001 Pb000333 V3.0.16	V243
054-1BA00	✓	✓	✓	✓	✓	✓	✓	V211
054-2BA10	✓	✓	✓	✓	✓	✓	✓	V245
054-1CB00	✓	✓	✓	✓	✓	✓	✓	V211
054-1DA00	✓	✓	✓	✓	✓	✓	✓	V211
060-1AA01 061-1BA01	01V17.003 Pb000265 V3.0.20	02V22.003 Pb000327 V3.0.20	02V22.003 Pb000327 V3.0.20	03V32.003 Pb000328 V3.0.20	02V23.003 Pb000329 V3.0.20	02V34.003 Pb000330 V3.0.20	01V13.003 Pb000333 V3.0.20	✓

✓: The product version can be used without restrictions. No configuration is required to use the IM 06x line extensions.

- : Product version is not supported.

¹⁾ The limitations only apply to the isochronous operation. In free running mode, there are no limitations on the CPU firmware.

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7 Isochronous mode

7.1 Head modules - IM 053-xxxxx and CPU 01x-xxxxx

Isochronous mode

Isochronous mode means the input or output of process data synchronized to the bus clock of the head module. The following System SLIO CPUs or interface modules support isochronous mode:

- CPU 015-CEFNR00 - VSC/FSC Motion Control
- IM 053-1EC01 - DC (Distributed Clock Mode)
- IM 053-1PN01 - IRT (Isochronous Realtime Mode)
- IM 053-1ML00 - SYNC (Synchronous operation)
- IM 053-1ML40 - SYNC (Synchronous operation)



NOTICE

The CPs 040-1BA00 and 040-1CA00 must not be used in a synchronized SLIO system, otherwise this will lead to system-related disturbances in clock synchronization.



- Please note that the peripheral modules only support isochronous mode from the specified hardware revision.
- Not listed System SLIO modules do not support synchronization with the SLIO head station, but can be used in a synchronized SLIO system.

Peripheral modules

Isochronous mode is supported from the following hardware revision of the peripheral module:

DI	Digital input	from version
021-1BB00	SM 021 - DI 2xDC 24V	HW: 02
021-1BB10	SM 021 - DI 2xDC 24V 2µs...3ms	HW: 02
021-1BD00	SM 021 - DI 4xDC 24V	HW: 02
021-1BD10	SM 021 - DI 4xDC 24V 2µs...3ms	HW: 02
021-1BD40	SM 021 - DI 4xDC 24V 3 wire	HW: 02
021-1BD50	SM 021 - DI 4xDC 24V NPN	HW: 02
021-1BD70	SM 021 - DI 4xDC 24V ETS	HW: 02
021-1BD80	SM 021 - DI 4xDC24V µs time stamp, NPN	No limitation
021-1BF00	SM 021 - DI 8xDC 24V	HW: 02
021-1BF01	SM 021 - DI 8xDC 24V 0.5ms	No limitation
021-1BF50	SM 021 - DI 8xDC 24V NPN	HW: 02
021-1BF51	SM 021 - DI 8xDC 24V 0.5ms, NPN	No limitation
021-1BH00	SM 021 - DI 16xDC 24V	No limitation

DO	Digital output	from version
022-1BB00	SM 022 - DO 2xDC 24V 0.5A	HW: 02
022-1BB90	SM 022 - DO 2xDC 24V 0.5A PWM	HW: 02
022-1BD00	SM 022 - DO 4xDC 24V 0.5A	HW: 02
022-1BD20	SM 022 - DO 4xDC 24V 2A	HW: 02
022-1BD50	SM 022 - DO 4xDC 24V 0.5A NPN	HW: 02
022-1BD70	SM 022 - DO 4xDC 24V 0.5A ETS	HW: 02
022-1BD80	SM 022 - DO 4xDC 24V µs time stamp NPN	No limitation

Head modules - IM 053-xxxxx and CPU 01x-xxxxx

DO	Digital output	from version
022-1BF00	SM 022 - DO 8xDC 24V 0.5A	HW: 02
022-1BF01	SM 022 - DO 8xDC 24V 0.5A	No limitation
022-1BF50	SM 022 - DO 8xDC 24V 0.5A NPN	HW: 02
022-1BH00	SM 022 - DO 16xDC24V 0.5A	No limitation
022-1BH50	SM 022 - DO 16xDC24V 0.5A NPN	No limitation
022-1HB10	SM 022 - DO 2xRelay	HW: 04
022-1HD10	SM 022 - DO 4xRelay	HW: 04
AI	Analog input	from version
031-1CD28	SM 031 - AI 4x16Bit $\pm 20\text{mA}/\pm 10\text{V}$	No limitation
FM	Functional / Motion modules	from version
050-1BA00	FM 050 - Counter module Advanced 1x32Bit	HW: 02
050-1BA10	FM 050 - Counter module 5V differential 1x32Bit	HW: 02
050-1BB00	FM 050 - Counter module 2x32Bit	HW: 02
050-1BB30	FM 050 - Counter module eco 2x32Bit	HW: 03
050-1BB40	FM 050 - Frequency measurement 2x24Bit	HW: 02
050-1BS00	FM 050S - SSI module	HW: 03
054-2BA10	FM 054 - 1xStepper 48V 5A	No limitation
IM	Extension modules	from version
060-1AA00	IM 060 - Expansion module RJ45 MainDevice	No limitation
060-1BA00	IM 060 - Expansion module RJ45 SubDevice	No limitation
060-1AA01	IM 060 - Expansion module RJ45 MainDevice 2.0	No limitation
060-1BA01	IM 060 - Expansion module RJ45 SubDevice 2.0	No limitation

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