

Saia® PCD2 System CPU

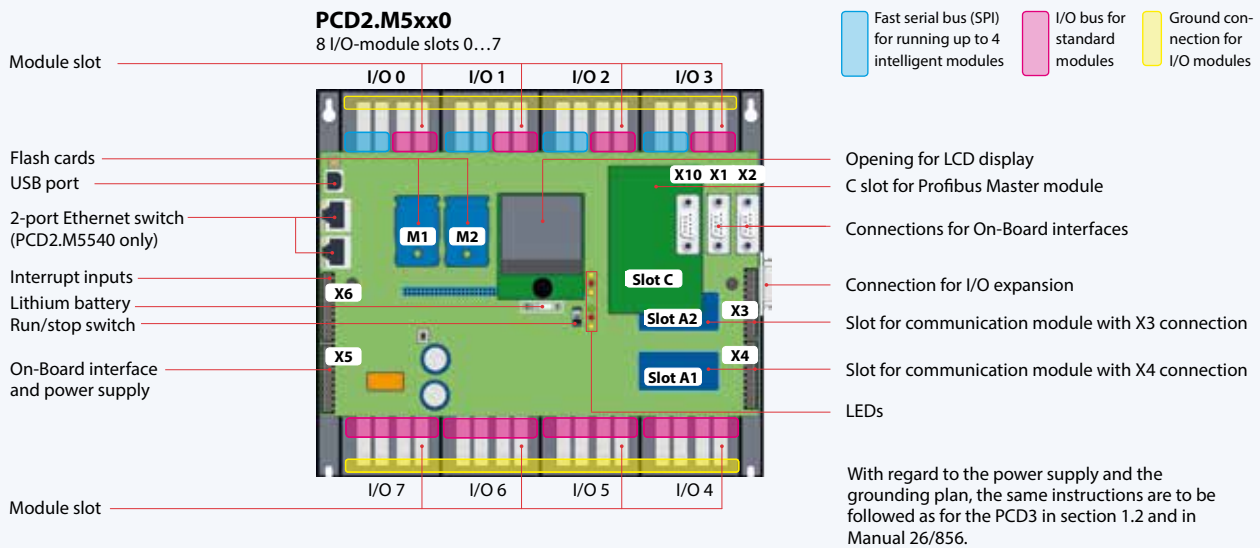


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Saia® PCD2.M5xxx controllers

Due to its flat housing design, the Saia® PCD2.M5xxx is especially suitable for space-saving applications. The powerful CPU enables the control and regulation functions of complex applications with up to 1,023 central data points. The PCD2 can be expanded by means of plug-in memory modules to become a Lon IP® or BACnet®-enabled controller. The PCD2 has communication interfaces such as USB, Ethernet, RS-485 and AutomationServer On-Board.



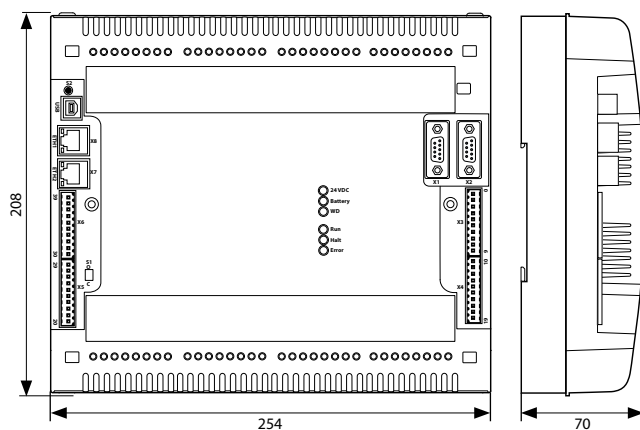
System properties

- ▶ Up to 15 communication interfaces (RS-232, RS-485, etc.)
- ▶ 8 I/O slots that can be expanded by means of module holders to max. 64 slots (1,023 central data points)
- ▶ Local I/O expansion with RIO-PCD3.T66x (Ethernet) or PCD3.T760 (Profi-S-IO)
- ▶ 1 MByte of program memory
- ▶ AutomationServer On-Board
- ▶ Data memory with flash memory modules that can be expanded to 4 GByte
- ▶ 6 fast interrupt/counter inputs on the CPU
- ▶ Compatible with all PCD3 module holders

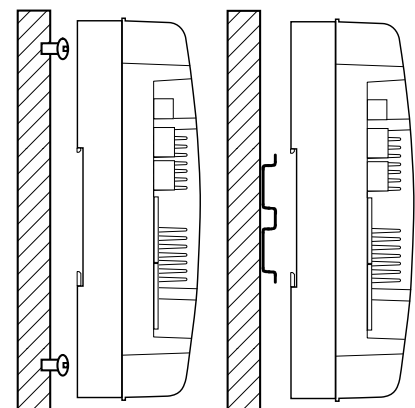
On-Board interfaces of the Saia® PCD2.M5xxx

Type	Connection	Port	Transmission rate
RS-232 (serial) or RS-485 (serial)	X2 (D-Sub) X5 (terminal)	0 0	≤ 115.2 kbit/s ≤ 115.2 kbit/s
RS-485 (serial) for free protocols or Profi-S-Net / Profibus-DP Slave	X1 (D-Sub) X1 (D-Sub)	3 10	≤ 115.2 kbit/s ≤ 1.5 Mbit/s
Ethernet (2 port switch) (PCD2.M5540 only)	Ethernet	9	10/100 Mbit/s
USB 1.1 (PGU)	USB	---	≤ 12 Mbit/s

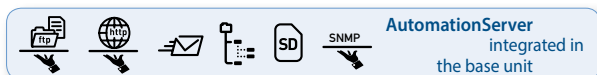
Dimensions



Mounting



Technical data and ordering information for PCD2.M5xxx controllers



Technical overview

Technical data

Number of digital inputs/outputs On-Board	6 digital inputs (24 V, 4 × interrupts) 2 digital outputs (2 × PWM, 24 V 100 mA)
Number of digitale inputs/outputs ind the base unit	128
resp. /O module slots in the base unit	8
Number of digital inputs/outputs with 7 PCD2.C2000 module holder	896
resp. I/O-module slots	56
Processing time [μs]	bit operation 0,3...1,5 μs word operation 0,9 μs
Real time clock (RTC)	yes

Memory On-Board

Main memory (RAM) for program and DB/TEXT	1 MByte
Flash memory (S-RIO, configuration and backup)	2 MByte
User flash file system (INTFLASH)	No
Data backup	1...3 years with lithium battery

Communication interfaces On-Board

RS-232, RS-485 / PGU	≤ 115 kbit/s
RS-485 Profibus-DP-Slave, Profi-S-Net (S-IO, S-Bus)	≤ 1,5 Mbit/s
USB 1.1 (PGU)	≤ 12 Mbit/s
Ethernet, 2 port switch (PCD2.M5540 only)	≤ 10/100 Mbit/s (full duplex, auto-sensing/auto-crossing)

Genera data

Supply voltage (according to EN/IEC 61131-2)	24 VDC –20/+25 % max. incl. 5% ripple
Loading capacity 5 V / + V internal	max. 1400 mA / 800 mA
AutomationServer	Flash memory, file system, FTP and web server, e-mail, SNMP

Ordering information

Saia® PCD2

Type	Description
PCD2.M5440	Programmable controller, 1024 kByte of RAM
PCD2.M5540	Programmable controller, 1024 kByte of RAM, Ethernet interface

Saia® PCD2 I/O-module holder

Type	Description
PCD2.C1000	Extension module holder with 4 I/O slots
PCD2.C2000	Extension module holder with 8 I/O slots
PCD2.K010	I/O bus connector
PCD2.K106	I/O bus extension cable Length 0.9 m (Connection between PCD2.M5xxx and PCD2.Cxxxx)
PCD3.K106	I/O bus extension cable Length 0.7 m (Connection between two module holder)
PCD3.K116	I/O bus extension cable Length 1.2 m (Connection between two module holder)

Additional accessories such as connectors, covers, etc. are described on the last page of this section.