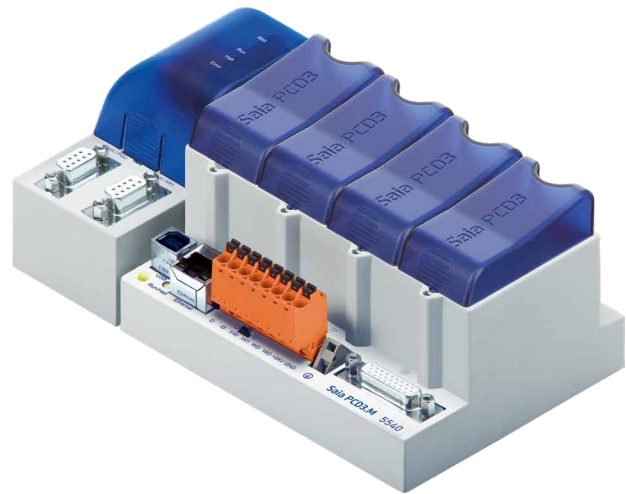


PCD3.M5540

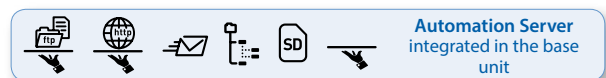
CPU basic module with Ethernet TCP/IP and Profibus-DP Slave 1.5 Mbits, 1 MB program memory



The Saia PCD3.M5 is a high-performance CPU with a modular cassette design.

With its fast processor and high system resources, it can run up to 13 communications interfaces and reliably perform even the most demanding control and communications tasks.

The generous memory resources (up to 4 GB) enable it to record, monitor, archive and control the data and statuses of all system groups.



Technical Data

	PCD3.M5340	PCD3.M5540
	Standard	Standard
Number of inputs/outputs or I/O module slots	1023	
I/O expansion connection for PCD3.Cxxx module holder	Yes	
Processing time [µs] bit operation word operation	0.3...1.5 µs	
Real-time clock (RTC)	Yes	

Onboard memory

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

Onboard interfaces

USB 1.1	Yes	
Ethernet 10/100 Mbits, full-duplex, auto-sensing/auto-crossing	Yes	
RS-232 on D-Sub connector (PGU/Port 0)	up to 115 kbits	
RS-485 on terminal block (Port 2) or RS-485 Profibus-DP Slave, Profi S-Net on terminal block (Port 2)	up to 115 kbits up to 187.5 kbits	up to 115 kbits No
RS-422/485 (electrically connected) on D-Sub connector (Port 3) *	up to 115 kbits	No
RS-485 (electrically isolated) on D-Sub connector (Port 3) *	No	up to 115 kbits
Profibus-DP Slave, Profi S-Net on D-Sub connector (Port 10) *	No	up to 1.5 Mbits

* can be used as an alternative

Options

The data memory can be expanded to 4 GB with flash memory modules (with file system).

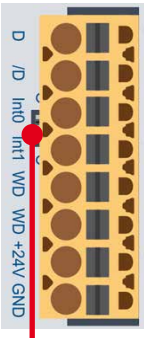
Optional data interfaces

I/O slot 0	PCD3.F1xx modules for RS-232, RS-422, RS-485 and Belimo MP-Bus
I/O slot 0...3 up to 4 modules or 8 interfaces:	PCD3.F2xx modules for RS-232, RS-422, RS-485, BACnet® MS/TP, Belimo MP-Bus, DALI and M-Bus

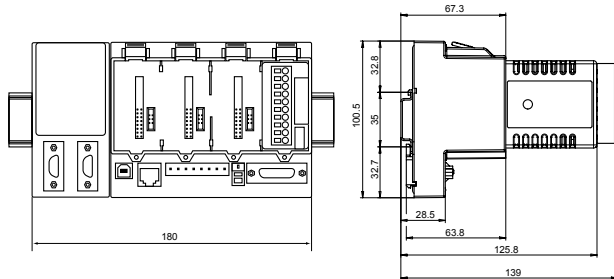
General specifications

Supply voltage (in accordance with EN/IEC 131-2)	24 VDC, -20/+25% max. incl. 5% ripple or 19 VAC ±15% two-way rectified (18 VDC)
Power consumption	typically 15 W for 64 I/Os
Capacity 5 V/+V (24 V) internal	max. 600 mA/100 mA

Connections

Terminal block (Order number: 4 405 4995 0) for supply, watchdog, interrupt inputs and Port #2				Profibus	
	Pin	Signal	Explanation	Signal	Wiring
	1	D	Port #2 RS-485 up to 115.2 kbit/s usable as free user interface or Profi-S-Bus up to 187.5 kbits/s	RxD/TxD-N	A green
	2	/D		RxD/TxD-P	B red
	3	Int0	2 interrupt inputs 24 VDC or 1 rapid counter 24 VDC		
	4	Int1			
	5	WD	Watchdog		
	6	WD			
	7	+24V	Voltage supply		
	8	GND			
RS-485 terminator switch					
Switch position	Designation	Explanation			
left	O	without termination resistors			
right	C	with termination resistors			

Dimensions



Details about this CPU can be found in the manual 26-789 ENG "PCD3 series".



I/O modules and I/O terminal blocks may only be plugged in and removed when the Saia PCD® and the external +24 V are disconnected from the power supply.



EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.

Ordering information

Type	Short description	Description	Weight
PCD3.M5540	CPU basic module with Ethernet TCP/IP and Profibus-DP Slave 1.5 Mbits, 1 MB program memory	PCD3 processor unit with Ethernet TCP/IP, web and FTP server, file system, CPU with 1 MByte user program, backup option with PCD7.R5xx/R610 Flash card, USB port for PG5, up to 1024 I/O, 2 interrupt inputs, RS-232, 2x RS-485 for Profi-S-Net/MPI/S-Bus, data protection 1-3 years	820 g

Accessories

Type	Short description	Description	Weight
4 405 4995 0	8-pin spring terminal block	Pluggable spring block, 8-pin up to 2.5 mm ² (orange terminal block), for power supply to PCD3.Mxxx0	12 g
4 507 4817 0	Lithium battery for PCD Base CPU	Lithium battery for PCD processor units (RENATA button type CR 2032)	3 g
4 104 7515 0	Slot cover for unused PCD3 I/O slots	Slot cover for unused PCD3 I/O slots (with SBC logo)	8 g

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