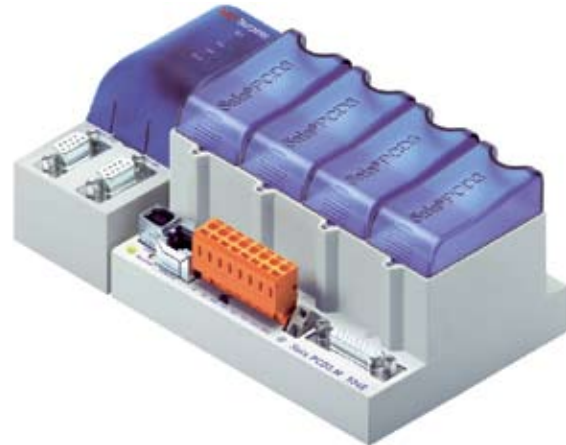


Data Sheet

Saia® PCD3.M5340 – Ethernet Controller with integral RS 232, RS 422/485 interfaces

Controls Division



By the combination of a fast microprocessor generation with the component-based Saia® NT operating system, the new Saia® PCD3 controller sets highest benchmarks at functionality and performance.

Latest CPU technology

- Sustainable processor technology with
 - 1 MByte RAM as User Program Memory,
 - 1 MByte Flash memory as Backup Memory on board
- Combined with the Saia® NT operating system, it is a simply packed, low-priced PLC of the middle class with a very high performance
- USB, RS 232, RS 422/RS 485, RS 485 and Industrial Ethernet-interface in the base unit. Integral Web server

Maximum peripheral connections

(for more details see TI P+P26/388)

- Up to 1023 central inputs/outputs with expansion module holder

- More than 50 I/O modules in cassette form (PCD3.Axxx/ .Exxx/ .Wxxx/ .Bxxx/ .Hxxx)
- Additional remote inputs/outputs via Profi-S-I/O with PCD3.T760 and PCD3 I/O modules

Efficient Saia® programming tools PG5

(for more details see TI P+P26/362 - or better download software demo version under www.sbc-support.ch/pcd8/pxxx/pcd8p5.htm)

- PG5 from Saia-Burgess with integral HMI Editor and comprehensive application components make programming convenient and efficient

General technical data/Operating conditions

Power supply

Supply voltage (according to EN/IEC 61 131-2)	24 VDC -20/+25% incl. 5% ripples
Current/Power consumption	typ. 175 mA/ 4.2 W max. 500 mA/ 12 W
Load-carrying ability 5V/24V internal	max. 600 mA/ 100 mA
Short voltage interruptions (according to EN/IEC 61 131-2)	≤ 10 ms with interval ≥ 1 s
Watchdog relay closing contact	48 VAC or VDC ¹⁾ , 1 A

Environmental influences

Storage temperature (according to EN/IEC 61 131-2)	-25...+70 °C
Ambient temp. operating (according to EN/IEC 61 131-2)	0...+55 °C ²⁾ or 0...+40 °C (depending upon mounting situation)
Relative air humidity (according to EN/IEC 61 131-2)	10...95 % r.h. non-condensing

Mechanical data

Type of mounting	DIN rail 35 mm
Protection level	IP 20
Flame resistance	UL 94 V0
Vibration (according to EN/IEC 61 131-2)	0.075 mm/1.0 g sinusoidally
Shock (according to EN/IEC 61 131-2)	15 g/11 ms sine half wave

¹⁾ mount a free-wheeling diode over the load when switching DC

²⁾ when assembling on vertical surface. All other mounting methods 0...40 °C

Communication interfaces

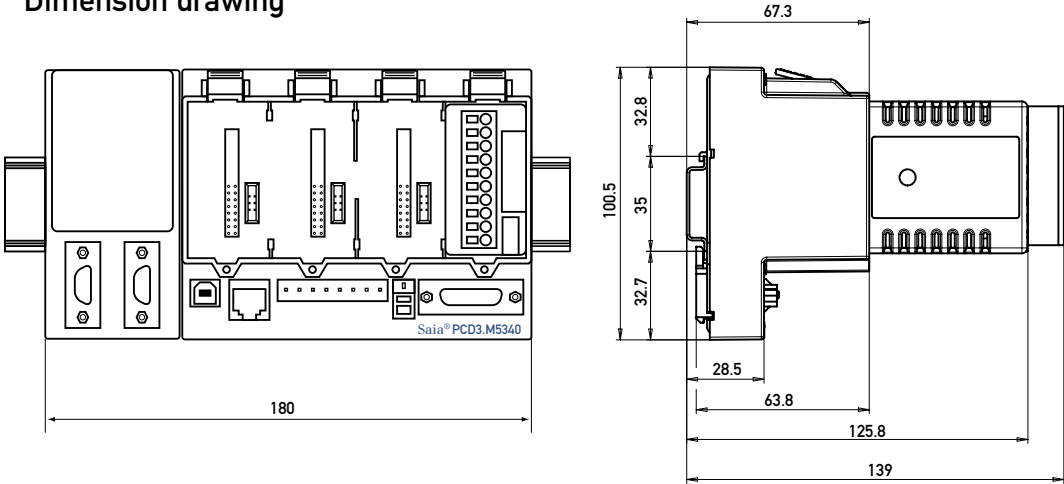
Port #0		Port #3			
RS 232/PGU		RS 422		RS 485	
D-Sub pin	Signal	Signal	Signification	Signal	Signification
1	DCD	/RXD	Receive data –		
2	RXD	/CTS	Clear to send –		
3	TXD	/TXD	Transmit data –	/RXD – /TxD	Receive/Transmit
4	DTR	/RTS	Request to send –	RTS	Request to send
5	GND	DGND	Data ground	DGND	Data ground
6	DSR	RXD	Receive data +		
7	RTS	CTS	Clear to send +		
8	CTS	TXD	Transmit data +	RxD – TxD	Receive/Transmit
9	n.c.	RTS	Request to send +		
		PGND	Shield (10, 11*)	PGND	Protection Ground

* Screw terminals of D-Sub connector housing

The PCD3.M5340 provides a RS422/485 interface. This CPU has the same functions as PCD3.M5540 except that the S-Net/MPI is replaced by RS422/485 interface up to 115 Kbit/s (compatible to PCDx.F110, but the termination network is configured through the PG5 “Hardware settings” option). Profi-S-Net up to 187.5 Kbit/s is available on port #2.

This document only specifies differences. Please refer to PCD3 Hardware manual 26/789 for common features.

Dimension drawing



Ordering information

Type	Description	Weight
PCD3.M5340	Base unit for 4 I/O modules PLC with 1Mbyte of user memory with Run/Stop switch, Backup option with PCD7.R500 Flash card, maximum 1023 digital I/Os, 2 interrupts, integral Web server, RS 232, RS 485 for Profi-S-Net, RS 422/485 Ethernet TCP/IP interface and USB port for programming with PG5, Data protection 1 ... 3 years with lithium battery	560 g

Addresses

Switzerland and international Saia-Burgess Controls Ltd. Bahnhofstrasse 18 CH-5280 Murten/Switzerland T +41 26/672 71 11 F +41 26/672 74 99 pcd@saia-burgess.com www.start-controls.com	This brochure was received from:
Product support, Technical reference website:	www.sbc-support.ch