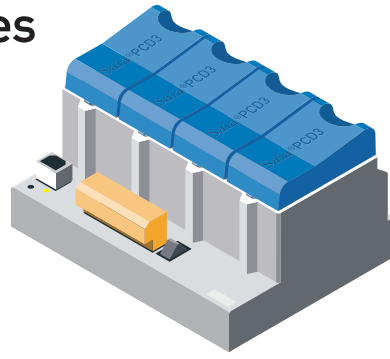


Performance overview PCD3 series



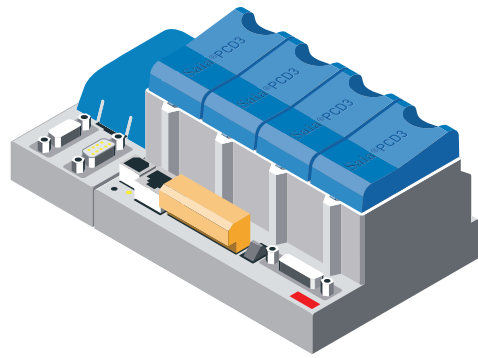
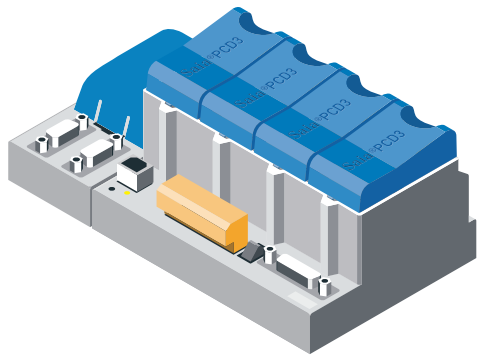
	PCD3.M3020 PCD3.M3120	PCD3.M3230 PCD3.M3330
Technical data CPUs	Basic	
Number of inputs/outputs or I/O module slots	64 4	1023 ¹⁾ 64
Expansion connection	no	yes
Processing time [µs]	0.3...1.5 µs 0.9 µs	0.3...1.5 µs 0.9 µs
	<ul style="list-style-type: none"> ■ bit operation ■ word operation 	
Integrated Web server + USB + Date-time (RTC)	yes	yes
On-board memory		
User memory (RAM)	128 KByte	512 KByte
Backup memory flash	128 KByte on board	512 KByte on board
Flash file system		
Data backup	4 hours with SuperCap	4 hours with SuperCap
Optional memory	up to 4 GByte	up to 4 GByte
On-board data interfaces	2...3	2...3
RS485 on terminal block(Profibus-DP slave, Profi-S-Net (S-IO, S-Bus))	up to 115.2 kBit/s oder Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s oder Profi-S-Net up to 187.5 kBit/s
USB 1.1	yes	yes
Ethernet-TCP/IP 10/100 MBit/s	with PCD3.M3120	with PCD3.M3330
RS-232 up to 115.2 kBit/s	no	no
RS-422/RS485 on Port #3	no	no
Profibus-DP slave, Profi-S-Net (S-IO, S-Bus), up to 1.5MBit/s	no	no
Controller Area Network (CAN 2.0B)	no	no
Profibus-DP Master up to 12 MBit/s	no	no
Optional data interfaces	Up to 8	Up to 8
Optional PCD3.F1xxmodules for RS-232, RS485, RS-422, TTY/20 mA and Belimo MP-Bus	only Slot #0	only Slot #0
Optional PCD3.F2xxmodules for RS-232, RS485, RS-422, TTY/20 mA and Belimo MP-Bus	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports
General		
Supply voltage(according to EN/IEC61131-2)	24 VDC -20/+25% max.incl. 5% ripple	24 VDC -20/+25% max.incl. 5% ripple
Capacity 5 V/24 V intern	max. 600 mA/100 mA	max. 600 mA/100 mA
Programmable	from PG5 Version \$1.4.100	from PG5 Version \$1.3.100

¹⁾ when using PCD3.Cxxx and digital I/O-modules with 16 I/Os each.

System resources

Flags	14336 × 1 bit, volatile or non-volatile, division programmable ¹⁾	Timing range:	31 bit, unsigned (0...2 147 483 647), timing signals selectable 10 ms to 10 s
Registers	16 384 × 32 Bit, non-volatile	Texts and DBs	8192
Computational ranges	Integers: -2 147 483 648... +2 147 483 647 (-2 ³¹ ...+2 ³¹ -1) Floating-point numbers: ±9.22337 × 10 ¹⁸ ...±5.42101 × 10 ⁻²⁰ Formats: decimal, binary, BCD, hexadecimal or floating-point	Hardware clock	Time values: S/min/h, week/day of week, month/day of month, year
Index registers	17 × 13 Bit (1 per COB and 1 for all XOBs)	Accuracy	better than 1 minute/month
Timers/Counters	1 600 volatile timers or non-volatile counters, division programmable	Power reserve	8 hours for PCD3.M3xx0 1 to 3years for PCD3.M5xx0 and PCD3.M6xx0
Counting range	31 bit, unsigned (0...2 147 483 647)		

¹⁾ from firmware version 1.14.xx



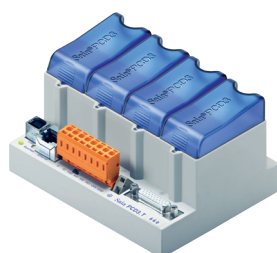
PCD3.M5440
PCD3.M5540
PCD3.M5560
PCD3.M6340
PCD3.M6360
PCD3.M6440
PCD3.M6540
PCD3.M6560

PCD3.M5340	Extended	CAN ³⁾			DP Master	
1023 ¹⁾ 64	1023 ¹⁾ 64	1023 ¹⁾ 64	1023 ¹⁾ 64	1023 ¹⁾ 64	1023 ¹⁾ 64	1023 ¹⁾ 64
yes	yes	yes	yes	yes	yes	yes
0.3...1.5 µs 0.9 µs	0.3...1.5 µs 0.9 µs	0.1...0.8 µs 0.3 µs	0.3...1.5 µs 0.9 µs	0.1...0.8 µs 0.3 µs	0.3...1.5 µs 0.9 µs	0.1...0.8 µs 0.3 µs
yes	yes	yes	yes	yes	yes	yes
1 MByte	1 MByte	2 MB ²⁾ progr. + 1 MB ²⁾ text/DB	1 MByte	2 MB ²⁾ progr. + 1 MB ²⁾ text/DB	1 MByte	2 MB ²⁾ progr. + 1 MB ²⁾ text/DB
1 MByte (on board)	1 MByte (on board)	16 MByte	1 MByte (on board)	16 MByte	1 MByte (on board)	16 MByte
1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte	1 ...3 years with Lithium battery up to 4 GByte
5	4...5	4...5	4...5	4...5	4...5	4...5
up to 115.2 kBit/s oder Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s	up to 115.2 kBit/s or Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s or Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s or Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s or Profi-S-Net up to 187.5 kBit/s	up to 115.2 kBit/s or Profi-S-Net up to 187.5 kBit/s
yes	yes	yes	yes	yes	yes	yes
yes	with PCD3.M5540	yes	yes	yes	with PCD3.M6540	yes
yes (on D-Sub)	yes (on D-Sub)	yes (on D-Sub)	yes (on D-Sub)	yes (on D-Sub)	yes (on D-Sub)	yes (on D-Sub)
yes (on D-Sub)	no	no	no	no	no	no
no	yes (on D-Sub)	no	no	no	no	no
no	no	no	yes (on D-Sub)	no	no	no
no	no	no	no	no	yes (on D-Sub)	yes (on D-Sub)
Up to 8	Up to 8	Up to 8	Up to 8	Up to 8	Up to 8	Up to 8
only Slot #0	only Slot #0	only Slot #0	only Slot #0	only Slot #0	only Slot #0	only Slot #0
Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports	Slot #0...3 up to 8 ports
24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$1.4.120	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$1.3.100	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$2.0.136	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$1.3.100	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$2.0.136	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$1.3.100	24 VDC -20/+25% max.incl. 5% ripple max. 600 mA/100 mA from PG5 Version \$2.0.136

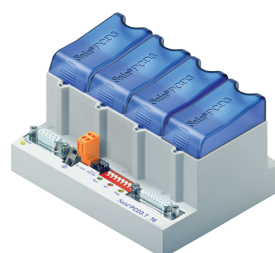
²⁾ flash memory

³⁾ Only for users with CAN experience

PCD3 decentralized RIO nodes
The PCD3.T76x head stations are described in chapter 7.



PCD3.T66x



PCD3.T76x