

## Saia® PCD3.Mxx60 controllers

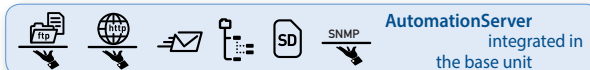
### High Power CPU for all requirements

Thanks to the fast processor and the increased system resources, the Power CPU has sufficient power reserves to process the most demanding control and communication tasks.



#### System properties

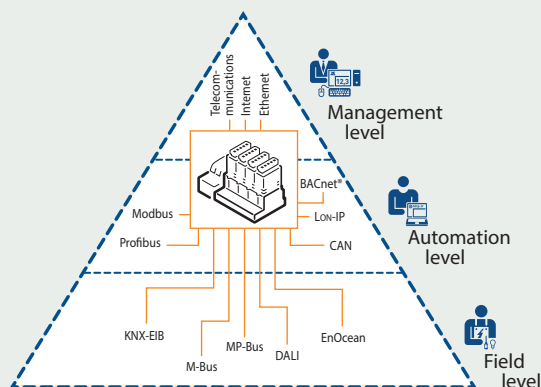
- ▶ Up to 1,023 inputs/outputs  
Can be expanded locally with RIO PCD3.T66x or PCD3.T76x
- ▶ Up to 13 communication interfaces
- ▶ USB and Ethernet interface onboard
- ▶ 2 Ethernet interfaces (PCD3.M6860 only)
- ▶ Fast program processing (0.1µs for bit operations)
- ▶ Large onboard memory for programs (2 MByte) and data (128 MByte file system)
- ▶ Memory with SD flashcards can be expanded to 4 GByte
- ▶ AutomationServer for the integration into Web/IT systems



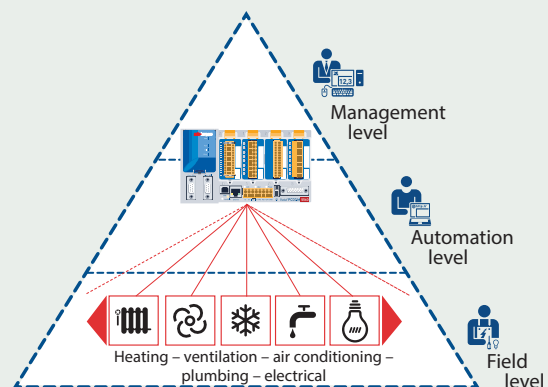
#### Types

- ▶ **PCD3.M5560** CPU basic module with Ethernet TCP/IP, 2 MByte of program memory
- ▶ **PCD3.M6560** CPU basic module with Ethernet TCP/IP and Profibus-DP Master 12 Mbit/s, 2 MByte of program memory
- ▶ **PCD3.M6860\*** CPU basic module with 2 × Ethernet TCP/IP, 2 MByte of program memory

\* In preparation, see section C2 Product status



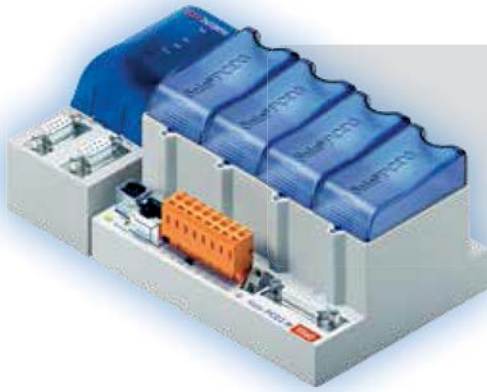
- ▶ The Saia® PCD3 Power CPU has sufficient system resources to operate up to 13 communication interfaces in the same device. Even the most demanding tasks, such as simultaneous communication via BACnet® and LON IP, are handled reliably.



- ▶ The generous memory resources (4 GByte) of the new PCD3 Power CPU make it possible to record/monitor, archive and control the data and statuses of all trades in the Saia® PCD, even without computer equipment and control system software. Applications for the various subsystems (HVAC) can be conveniently created using the graphical PG5 engineering tool and application-specific software libraries.

## Saia® PCD3.Mxx60 controllers

### High Power CPU



1,023	I/O
4.2 GByte	File system
2 MByte	Program
0.1/0.3 µs bit/word	CPU speed

1 Automation stations

2 HMI Visualization and operating

3 Dedicated room controller

4 Consumption data acquisition

5 Cabinet components

#### Technical data

	PCD3.M5560	PCD3.M6560	PCD3.M6860
	Power	DP Master	2 × Ethernet
Number of inputs/outputs	1023		
or I/O-module slots	64		
I/O expansion connection for PCD3.C module holder	Yes		
Processing time [µs]	bit operation	0.1...0.8 µs	
	word operation	0.3 µs	
Real time clock (RTC)	Yes		

#### On-Board memory

Program memory, DB/text (ROM)	2 MByte
User memory, DB/text (RAM)	1 MByte
Flash memory (S-RIO, configuration and backup)	128 MByte
User flash file system (INTFLASH)	128 MByte
Data backup	1...3 years with lithium battery

#### On-Board interfaces

USB 1.1	Yes		
Ethernet 10/100 Mbit/s, full-duplex, auto-sensing/auto-crossing	Yes	2×	
RS-232 on D-Sub connector (PGU/Port 0)	up to 115 kbit/s		No
RS-485 on terminal block (Port 2) or RS-485 Profibus-DP Slave, Profi-S-Net on terminal block (Port 2)	up to 115 kbit/s	up to 115 kbit/s	up to 115 kbit/s
	No	up to 187.5 kbit/s	up to 187.5 kbit/s
RS-485 on D-Sub connector (Port 3) * or Profibus-DP Slave, Profi-S-Net on D-Sub connector (Port 10) * or Profibus-DP Master up to 12 Mbit/s on D-Sub connector (Port 10) *	up to 115 kbit/s	No	No
	up to 1.5 Mbit/s	No	No
	No	Yes	No

\* can be used as an alternative, electrically isolated

#### Options

The data memory can be extended with flash memory modules (with file system) up to 4 GByte.

#### 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 data

Supply voltage (according to EN/IEC 61131-2)	24 VDC -20/+25% max. incl. 5% ripple or 19 VAC +/-15% full-wave rectified (18 VDC)
Power consumption	typically 15 W for 64 I/Os
Capacity 5 V/+V (24 V) internal	max. 600 mA/100 mA