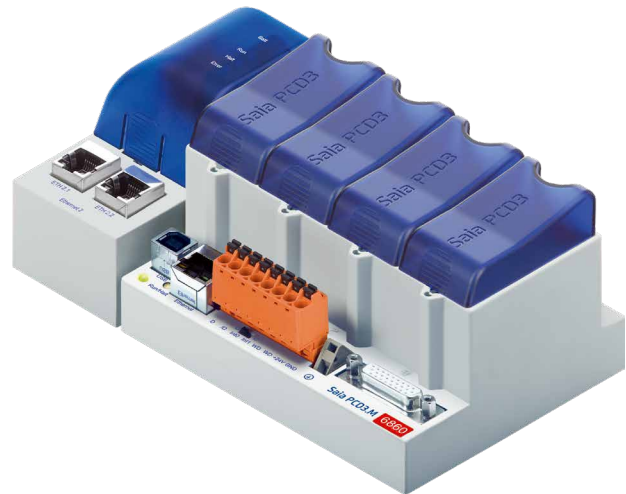**sbc+**
SAIA BURGESS CONTROLS

PCD3.M6860
High-performance CPU for any requirement

The fast processor and increased system resources provide the High Power CPU with sufficient power reserves to process the most demanding control and communication tasks.

System properties

▸ Up to 1023 inputs/outputs
Can be expanded remotely with RIO PCD3.T66x

▸ Up to 13 communication interfaces

▸ Onboard USB and Ethernet interface

▸ 2 Ethernet interfaces (PCD3.M6860 only)

▸ Fast program processing (0.1 µs for bit operations)

▸ Large onboard memory for programs (2 MB) and data (128 MB file system)

▸ Memory with SD flash cards can be expanded up to 4 GB

▸ Automation Server for integration in Web/IT systems

| ftp | http | SNMP | @ | | SD | **Automation Server** integrated in the base unit |

Technical Data

Number of inputs/outputs		1023
or I/O module slots		64
I/O expansion connection for PCD3.Cxxx module holder		Yes
Processing time [µs]	bit operation	0.1…0.8 µs
	word operation	0.3 µs
Real-time clock (RTC)		Yes

Onboard memory

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

Onboard interfaces

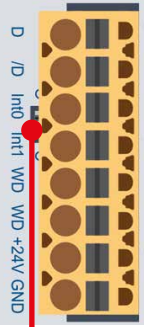| USB 1.1	Yes
Ethernet 10/100 Mbits, full-duplex, auto-sensing/auto-crossing	2×
RS-232 on D-Sub connector (PGU/Port 0)	No
RS-485 on terminal block (Port 2) or RS-485 Profibus-DP Slave, Profi S-Net on terminal block (Port 2)	up to 115 kbits up to 187.5 kbits
RS-485 on D-Sub connector (Port 3)* or Profibus-DP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

* can be used as an alternative
[1] electrically connected
[2] electrically isolated

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

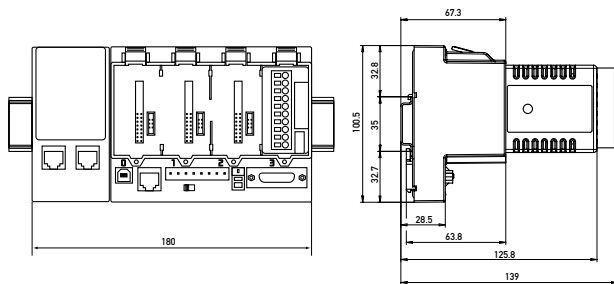| Supply voltage (in accordance with EN/IEC 61131-2)	24 VDC, –20/+25% max. incl. 5% ripple or 19 VAC ±15% two-way rectified (18 VDC)
Power consumption	typically 15 W for 64 I/Os
Capacity 5 V/+V (24 V) internal	max. 600 mA/100 mA

Connections

	Pin	Signal	Explanation
	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
	2	/D	
	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

Dimension Drawing

 Further information can be found in the Manual "Series PCD3" 26-789_ENG.

 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.M6860	CPU basic module with 2 Ethernet TCP/IP, 2 MB of program memory	PCD3 processor unit with 2 Ethernet TCP/IP, web and FTP server, file system, CPU with 2 MByte user program, 1 MByte SRam extension memory, 128 MByte user Flash memory with file system, clock (RTC), data protection 1-3 years, USB port for PG5, up to 1024 I/O, 2 interrupt inputs, RS-485 for Profi-S-Net/MPI/S-Bus	820 g

Accessories

Type	Short description	Description	Weight
4 405 4995 0	8-pin spring terminal block	for power supply to PCD3.Mxxx0	34 g