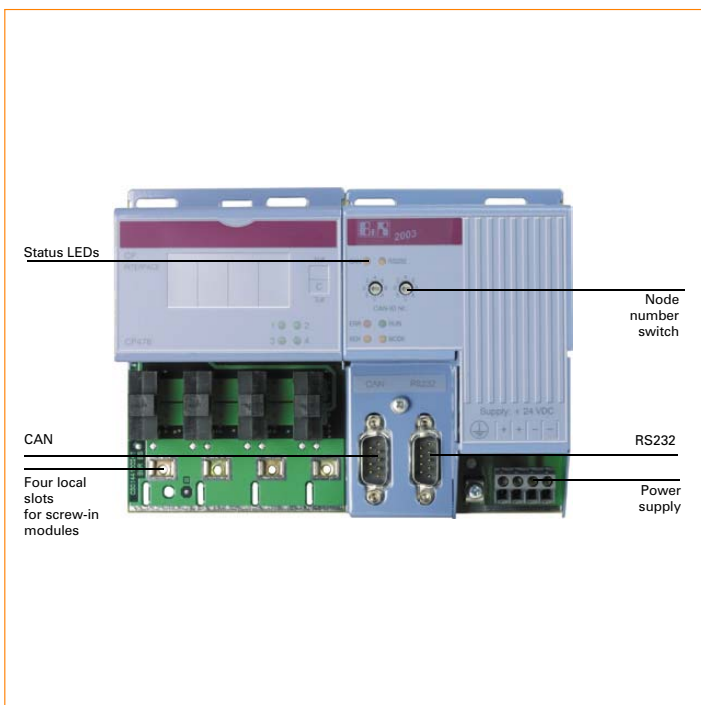


# CPU CP476



The CP476 CPU represents the upper performance end of the System 2003. Increased clock frequency and the integration of a separate I/O processor, means that it delivers, in contrast to the CP474, an increase in performance of at least 50 % and up to twice as fast analog value processing on the local screw-in module slots.

The CP476 CPU has four local slots integrated. Analog or digital screw-in modules for I/O signals can be operated on these slots. The CP476 is equipped with a Time Processor Unit (TPU) for carrying out high speed signal processing in the microsecond range. Digital screw-in modules with TPU functions are available for carrying this out.

The CPU is equipped with an RS232 and a CAN interface. Up to four screw-in modules can be used on the local slots of the CPU.

The RS232 interface is primarily intended for programming the CPU. It can also be used as a general interface for connecting visualizations, printers or barcode readers.

The CAN fieldbus interface is used for communication with other control systems and for remote expansion of inputs and outputs with System 2003 components and a CAN bus controller, e.g. EX470.

Memory capacity was increased to meet the increasing requirements of the applications.


- 750 KB User SRAM
- 1.5 MB User FlashPROM
- Additional I/O processor
- 2 node number switches for CAN



<b>Short Description</b>	<b>7CP476.60-1</b>
System Module	CPU
Interfaces	1 x RS232, 1 x CAN bus
<b>Controller</b>	<b>7CP476.60-1</b>
Typical Instruction Cycle Time	0.5 µs
Additional I/O Processor	Handles I/O data points
Standard Memory	
User RAM	750 KB SRAM
System PROM	512 KB FlashPROM
User PROM	1.5 MB FlashPROM
Data Buffering	
Lithium Battery	Typ. 3 years
Battery Monitoring	Yes
Hardware Watchdog	Yes
Voltage Monitoring	Internal supply monitored for overvoltage and undervoltage
Real-Time Clock	Nonvolatile memory, resolution 1 second
I/O Bus Interface	9-pin DSUB socket
Slots for Screw-in Modules	4
Suitable for IF Modules	1 - 3



<b>Interfaces</b>		<b>7CP476.60-1</b>
Interface IF1		
Type		RS232
Wiring		9-pin DSUB plug
Maximum Baud Rate		57.6 kBit/sec
Interface IF2		
Type		CAN bus
Wiring		9-pin DSUB plug
Maximum Baud Rate		500 kBit/sec
<b>Power Supply</b>		<b>7CP476.60-1</b>
Input Voltage		24 VDC
Voltage Range		18VDC to 30VDC
Power Input		20.0 W
Output Power for I/O Ports		12.5 W <sup>1)</sup>
1) Integrated power supply on pin 4 of the RS232 interface for simple Panelware™ controllers, e.g. P126.		
<b>General Information</b>		<b>7CP476.60-1</b>
Status Display		CPU function, RS232, CAN bus, operating state per screw-in module
Diagnostics		
CPU Function		Yes, with status LED
RS232		Yes, with status LED
CAN		Yes, with status LED
Operating State for Screw-in Modules		Yes, with status LED
Certification		CE, C-UL-US, GOST-R
Operation on Module Slot		1 + 2
Maximum Number of Logical Module Slots		16
Maximum Number of Analog Module Slots		4
Possible Module Addresses for Analog Modules		1 - 8, for description see section "Module Slot Rules"  127
Electrical Isolation		
PLC - IF1		No
PLC - IF2		Yes
IF1 - IF2		Yes
<b>Mechanical Characteristics</b>		<b>7CP476.60-1</b>
Dimensions		System 2003 double-width
Protection		IP20
Operating Temperature		
Horizontal Installation		0° C to +60° C
Vertical Installation		0° C to +50° C
Storage Temperature		-20° C to +60° C
Humidity		5 to 95% (non-condensing)
Remark		Backup battery is included in the delivery Integrated Time Processor Unit (TPU) for high speed signal processing in the microsecond range on integrated slots for screw-in modules

<b>Optional Accessories</b>		
4A0006.00-000	Lithium battery, 3 V / 950 mAh, button cell	
0AC201.9	Lithium batteries, 5 pcs., 3 V / 950 mAh, button cell	
0G0001.00-090	Cable PC <-> PLC/PW, RS232, online cable	
7AC911.9	Bus connector, CAN	 685