

## >> ABC-CPCI System

The ABC-CPCI system is designed for control tasks of the upper range of performance. The system is a modular design. Thus it provides a flexible system configuration to meet the various requirements of the total solution.

The ABC-CPCI system is based on 19" rackmount system and equipped with a 5 slot Compact PCI backplane. The power supply is integrated. The system is buffered by an external battery that can be replaced from outside.

As a central unit, the ABC-X-CPU-2 m57 with 64 MB remanent memory is used. For programming standard Siemens **Step5** and **Step7** is used.

### **ABC-RS7 416 CPU-software**

### **ABC-RS7 416-945 CPU-software**

### **ABC-RS7 416-948 CPU-software**

### **ABC-RS5 945 CPU-software**

### **ABC-RS5 948 CPU-software**

#### **ABC-X-CPU-2 m57:**

- Intel® Atom Processor N450 1.66 GHz, 512 KB L2 Cache
- 4x integrated 10/100/1000 Mbps Ethernet interfaces
- 2GB memory on board
- 64 MB remanent Data
- For use in SIMATIC racks of 115U, 135/155U and 150U/S/K by Siemens.
- Built-in Flash socket for SD cards
- 3 serial interfaces (1x TTY, 2x RS232)
- LED indicator for diagnosis
  
- Command compliant to S7-CPU 416 also in Mixed Mode as 416-945/948
- Quantity structure/Performance equates to S7-CPU417
- Compatible to S5-CPU 945/948
- Programming by standard Step5 und Step7
- Complete TCP / IP connection for linking of homogeneous and heterogeneous system components integrated
  
- High Performance (average 10ns/operation)
- Protocol support ASCII, STX/ETX
- Open programming interface for implementation of customized function and data blocks
- Direct visualization of process data via integrated graphics module
  
- Optionally:
- Profibus, Profinet, EtherCat on board



#### **Peripherals:**

- Profibus master interface
- Interbus master interface
- Profinet master interface
- EtherCat master interface

#### **ABC-CPCI Rack:**

- 19" rack, 3HU, 5 slots
- Power supply 230V /250W (24V possible)
- Dimensions 19", 3HU, 240/350 mm Depth
- Ask for customized Variants

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# Technical Data

## Technical data of rack:

<b>Rack</b>	19", 3 HU, 350 mm depth, 5 slot CPCI
<b>Bus interface</b>	Compact PCI
<b>Dimensions</b>	19", 3 HU, 240 / 350 mm depth
<b>Operating conditions</b> Operating temperature Storage temperature Relative humidity	0 °C ... +60 °C -10 °C ... +85 °C During operations: max. 90% without condensation
<b>Power supply</b>	Integrated ATX power supply 230 V, 250 W 24 V power supply or plug-in power supply optional

## Technical data CPU:

<b>Processor</b>	Intel® Atom™ Processor N450
<b>Electrical Data</b>	+5Vdc: 4.85V...5.24V
<b>Operating conditions</b> <ul style="list-style-type: none"> <li>▪ Operating temperature</li> <li>▪ Storage temperature</li> <li>▪ Relative humidity</li> <li>▪ Vibration and shock resistance</li> <li>▪ EMC / burst / ESD</li> </ul>	0°C ... +60°C -40°C...85°C During operations: max. 90% without condensation 2g/10..500Hz, 20g/10ms acc. IEC1000-4-2 (ESD) acc. IEC1000-4-4(Burst) Emissions acc. EN55022, Part B
<b>LEDs</b>	4 LEDs as status and fault indicators
<b>Dimensions</b>	Double Eurocard, height 8 HU
<b>Interfaces</b> Serial  Ethernet	1 x AS 511 (TTY) with DSUB 15 2 x RS232 with DSUB 9 4 x 10/100/1000 Mbps.
<b>Memory extension</b>	2 GB DDR2-667 MHz 8 GB SD Memory Card 64 MB remanent

## Technical data software RS5:

<b>Processing times</b>	Bit operations	10 ns
	Word operations	10 ns
	Fixed point arithmetics	10 ns
	Floating-point arithmetics	10 ns

## Technical data software RS7:

<b>Processing times</b>	Bit operations	10 ns
	Word operations	10 ns
	Fixed point arithmetics	10 ns
	Floating-point arithmetics	10 ns
<b>Timers / Counters</b>	S7 timers 2048	S7 counters 2048
<b>Data range and remanence</b> Markers Process image  Blocks  FBs max. FCs max. Data blocks max. Alarms	16 KByte from MB 0 to MB 16383 16 KByte In/16 KByte Out von EB 0 bis EB16383/AB 0 bis AB16383  max. 64 KByte  16384 16384 32768 9 wake-up alarms	