

## >> ABC Multibus System

The racks are used for integration of the ABC X5 or ABC X7 central modules. Complete system designs can be set up based on 19" rackmount systems.

For migration solutions, a rack with SIMATIC S5 and a Compact PCI backplane is available. 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

### **ABC rack:**

- Integration of SIMATIC S5 modules and 6 HU CPCI components
- Built-in 600 W power supply
- Data buffering using buffer battery
- Open industry standard CPCI
- Number of slots:
  1. Variant: 12 x S5 and 7 x CPCI
  2. Variant: 6 x S5 and 13 x CPCI

### **Peripherals:**

- Profibus master interface
- Interbus master interface
- Profinet master interface
- EtherCAT master interface

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## 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 power supply 230 V, 600 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	