



## // ABC X-CPU-2 m57 - – the modular CPU solution for the Simatic S5-Racks

The ABC X-CPU-2 m57 is a central module for use in the automation systems of the SIMATIC S5 by Siemens.

The module is programmable in STEP5, STEP7, PCS7 and TIA by Siemens and is suitable for restructuring and upgrading projects.

4 Gigabit CPs, 3 fieldbus master and the unique opportunity to work with S5 and S7 programs simultaneously, give a new dimension to the topic of retrofit SIMATIC S5 systems.

You can find the latest software updates and prices on: [www.abcit.eu](http://www.abcit.eu)

**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**

## BENEFITS & FEATURES

- 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
- Integrated socket for SD cards
- 3 serial interfaces (1x TTY, 2x RS232)
- LED diagnostics display
- For use in SIMATIC racks of 115U, 135/155U and 150U/S/K by Siemens
- 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
- Supports multiprocessor communication with up to 3x S5-CPU948 and 1x S7-CPU416
- Programmable in STEP5, STEP7, PCS7 and TIA
- Complete TCP/IP connection for linking of homogeneous and heterogeneous system components integrated
- High Performance (average 10ns/operation)
- Up to three fieldbus master Profibus, Profinet, EtherCATsorkommunikation mit bis zu 3 x S5-CPU948 und 1 x S7-CPU416

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## TECHNICAL DATA

### HARDWARE

<b>Processor</b>	Intel® Atom™ Processor N450
<b>Electrical Data</b>	+5Vdc: 4.85V ...5.24V

### OPERATING CONDITIONS

<b>Operating Temperature</b>	0°C ... +60°C
<b>Storage Temperature</b>	-40°C...85°C
<b>Relative Humidity</b>	During operations: max.90% without condensation
<b>Vibration and Shock</b>	2g/10..500Hz, 20g/10ms
<b>EMV/Burst/ESD</b>	gem. IEC1000-4-2 (ESD), gem. IEC1000-4-4(Burst), Emission gem. EN55022, Part B
<b>LEDs</b>	4 LEDs as status and fault indicators
<b>Dimensions</b>	Double Eurocard, height 6HE
<b>Interfaces Serial</b>	1 x AS 511 (TTY) with DSUB 15, 2 x RS232 with DSUB 9
<b>Interfaces Ethernet</b>	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

#### Processing times

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

### TECHNICAL DATA SOFTWARE RS7

#### Processing times

<b>Bit operations</b>	10 ns
<b>Word operations</b>	10 ns
<b>Fixed point arithmetics</b>	10 ns
<b>Floating-point arithmetics</b>	10 ns
<b>Timers / Counters</b>	S7 timers 2048, S7 counters 2048

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## Data range and remanence

<b>Markers</b>	16 KByte from MB 0 to MB 16383
<b>Process image</b>	16 KByte In/16 KByte Out, from EB 0 to EB 16383/AB 0 to AB 16383
<b>Blocks</b>	max. 64 KByte
<b>FB's max.</b>	65535
<b>FC's max.</b>	65535
<b>Data blocks max.</b>	65534
<b>Alarms</b>	9 wake-up alarms
<b>Load memory</b>	20 Mbyte
<b>Work memory</b>	16 Mbyte
<b>Communication jobs</b>	10000

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