

>> ABC-X-CPU-2 m57 – the modular CPU solution for the Simatic S5-rack

The ABC CPU is a central module for use in the automation systems of the SIMATIC S5-115U, 135/155U and 150U/S/K by Siemens. The module is programmed using Step5 and Step7 by Siemens and is suitable for restructuring and upgrading projects.



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

- 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

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Technical data hardware:

Processor	Intel® Atom™ Processor N450
Electrical Data	+5Vdc: 4.85V...5.24V
Operating conditions <ul style="list-style-type: none"> ▪ Operating temperature ▪ Storage temperature ▪ Relative humidity ▪ Vibration and shock resistance ▪ EMC / burst / ESD 	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. 55022, Part B
LEDs	4 LEDs as status and fault indicators
Dimensions	Double Eurocard, height 8 HU
Interfaces Serial Ethernet	1 x AS 511 (TTY) with DSUB 15 2 x RS232 with DSUB 9 4 x 10/100/1000 Mbps.
Memory extension	2 GB DDR2-667 MHz 8 GB SD Memory Card 64 MB remanent

Technical data software RS5:

Processing times	Bit operations	10 ns
	Word operations	10 ns
	Fixed point arithmetics	10 ns
	Floating-point arithmetics	10 ns

Technical data Software RS7:

Processing times	Bit operations	10 ns
	Word operations	10 ns
	Fixed point arithmetics	10 ns
	Floating-point arithmetics	10 ns
Timers / Counters	S7 timers 2048	S7 counters 2048
Data range and remanence 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 From EB 0 to EB16383/AB 0 to AB16383 max. 64 KByte 16384 16384 32768 9 wake-up alarms	