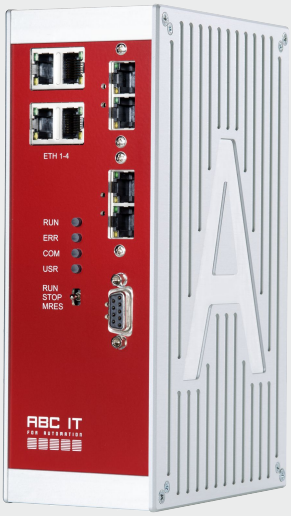
DATASHEET



// ABC X-CPU-3 c57 - The compact CPU solution for plant construction and engineering

The ABC X-CPU-3 c57 is a compact High Feature CPU without restrictions. The module is programmed using STEP5, STEP7, PCS7 and TIA by Siemens and is well suited for operation in modern plant construction and engineering for new projects, as well as retrofits of decentralized Simatic S7-400 or S7-300 systems and Simatic S5 AG95 or AG100 systems.

The compact CPU has four Gigabit CPs, up to three fieldbus master (Profibus, Profinet, EtherCAT), high performance, maximum Quantity structure, as well as the unique opportunity to work with S5 and S7 programs simultaneously.

You can find the latest software updates and prices on: 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

TECHNICAL DATA

- Embedded Intel® Atom™ Processor N2600
- 4x integrated 10/100/1000 Mbps Ethernet interfaces
- 64 MB remanent data
- LED diagnostics display
- 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, EtherCAT)

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TECHNICAL DATA

HARDWARE

Processor	Intel® Atom™ Processor N2600
Electrical Data	+24Vdc

OPERATING CONDITIONS

Operating Temperature	0°C ... +60°C
Storage Temperatur	-40°C...85°C
Relative Humidity	During operations: max. 90% without condensation
Vibration und Shock	2g/10..500Hz, 20g/10ms
EMV/burst/ESD	gem. IEC1000-4-2 (ESD), gem. IEC1000-4-4(burst), Emission gem. EN55022, Part B
LEDs	4 LEDs as status and fault indicators
Dimensions (W x H x L)	7,2cm x 20,4cm x 12,8cm
Interfaces Ethernet	4 x 10/100/1000 Mbps.
Memory extension	2 GB OnBoard Memory, 4 GB SLC OnBoard Flash, Process data remanent

TECHNICAL DATA SOFTWARE RS5

Processing times

Bit Operation	10 ns
Word Operation	10 ns
Fix point arithmetics	10 ns
Floating-point arithmetics	10 ns

TECHNICAL DATA SOFTWARE RS7

Processing times

Bit Operation	10 ns
Word Operation	10 ns
Fix point arithmetics	10 ns
Floating-point arithmetics	10 ns
Timers / Counters	S7 timers 2048, S7 counters 2048

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Data range and remanence

Markers	16 KByte from MB 0 to MB 16383
Prozessabbild	16 KByte In/16 KByte Out, from EB 0 to EB 16383/AB 0 to AB 16383
Blocks	max. 64 KByte
FBs max.	65535
FCs max.	65535
Data blocks max.	65534
Alarms	9 wake-up alarms
Load Memory	64 Mbyte
Work Memory	48 Mbyte
Communication jobs	10000

Profibus, Profinet, EtherCat are trademarks of the respective holder.
Step and Simatic are registered trademarks of Siemens AG.