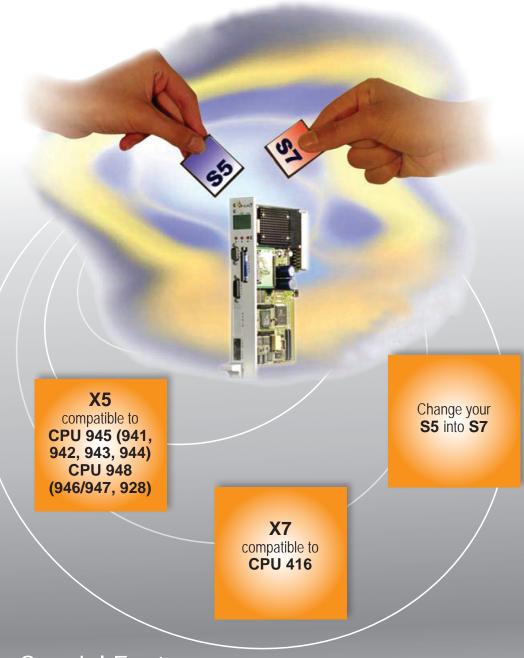
X5/X7 CPU



Special Features

- Can be programmed with STEP 7 (X5 with either Siemens STEP 5 or STEP 7) providing maximum flexibility when developing project strategies: Programming is possible via serial interface or Ethernet
- Integrated Ethernet controller: no Ethernet CP for TCP/IP required
- Mobile Pentium Processor 450 MHz
- Integrated Flash Socket for CF cards or IBM Microdrives
- Direct visualization of process data via integrated graphic module
- Direct information of CPU data (cycle time, load of the CPU etc.)
- Supports page frame access for IM and CP modules
- PC-MIP module slot for graphic, fieldbus etc.
- Diagnosis LCD display
- 64 MB memory on board (2 MB retained)
- Supported serial protocols: 3964R, RK512, ASCII
- Supported Ethernet protocols: TCP/IP, ISO on TCP (RFC1006)

What is X5 / X7

- X5 / X7 CPU's are sophisticated processing units that can be used in the Siemens S5-115U, 135/155U and S5-150U.
- The software based X5 and X7 CPU's have the same hardware. They only differ in the PLC CPU software (S5 resp. S7)

Upgrade in a Flash

While Siemens is phasing out its S5 product line, your investment in S5 PLC technology is secure with replacement X5 / X7 CPU's.

The X5 is a powerful sophisticated processing unit, with an integrated Ethernet controller that can replace your old existing CPU's in the Siemens S5-115U and 135 / 155U PLC's. When the time comes to standardize on a modern S7 PLC technology plattform, you can upgrade your S5 PLC to an S7 PLC in a Flash.

Simply change the Flash Card in your X5 powered S5 PLC and your CPU becomes an X7 CPU with the power of 416 CPU from Siemens.

APROTECH GmbH

Schleifweg 59 90409 Nürnberg

Phone: 0911 / 65 00 79-50 Fax.: 0911 / 65 00 79-79 Email: info@aprotech.de www.aprotech.de



Distribución: ER-SOFT, S.A. Email: er@er-soft.com, Tel: +34 916 408 408

Do you need to integrate S5 PLCs

In the past to upgrade S5 to S7 you had

- Purchasing new hardware
- Conversion of programs



Time-consuming, cost-intensive

S5 programs do not run on standard S7 CPU's. When upgrading your S5 PLC to an S7 PLC the S5 program had to be converted to S7.

Converter tools are available to support that process, but are costly and post editing (a common practice) is time consuming.

A converted program is loaded into the S7 CPU, is tested and if it doesn't work as desired (a good bet) the editing continues. Meanwhile production grinds to halt.

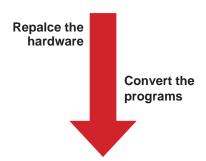
Just imagine you can upgrade your S5 PLC to an S7 PLC, S5 hardware and programs don't change and can be used as S7 components.

With X7 it's possible!



Process control system





Process control system with Step 7 usw.



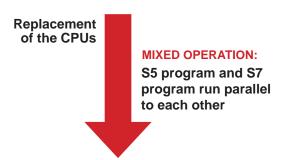


and S5 programs into S7 projects?

Upgrade today

Process control system with Step 5 etc.





Process control system with Step 7 etc.



The existing S5 program is completely executable in the X7 CPU.

In parallel to the S5 program, the new S7 program can be edited. Blocks from the S5 program to not have to be re-edited. They can be called in the S7 program.

- Hardware remains constant (exception: CPUs)
- S5 program remains constant
- S7 program and S5 program run concurrently



Time-saving, cost-effective

S5 and S7 program run simultaneously!

This enables you to test the S7 program and gradually upgrade to the full S7 system with low risk:

- Existing S5 programs can be integrated into S7 projects
- less down time
- easier, better migration possibilities
- less costs

Existing S5 hardware and S5 programs can be integrated into systems, that do not support S5 components (e.g. Simatic PCS 7 with Step 7 / CFC).



X7 CPH

S5 program and S7 program are executable in parallel



X5 / X7

Technical Data

Processor

K6-2E+ Processor 450 MHz

- Electrical data
 - + 5 V DC: 4,85V to 5,24V @tbd
- Memory

64 MB SDRAM 128 KB Bios Flash

2 MB retained SRAM

Serial Interfaces

1 x AS511(TTY) or RS232 with 15 pin Sub-D female 1 x RS232 with 9 pin Sub-D male

Ethernet interfaces

2 x 10/100 Mbps, RJ45, 2 port Switch

Interfaces optional

Keyboard und Mouse via PS2 Via PC-MIP module:

4 x RS232

4 x RS232 / 485

Graphic 1.280 x 1.024

• Ethernet protocols

TCP/IP

ISO on TCP (RFC1006)

Serial protocols

3964(R), RK512 ASCII

STX / ETX

Bus adaption

SIMATIC S5 115U, 135U/155U and 150U

Supports P and Q periphery

Supports page frame access for IM and CP modules

Software

Operating system RTOS-32 Software RS7 PLC CPU Software resp.

RS5 PLC CPU Software

Dimensions2 S5 slots

Operating conditions

Operating temeperature: -20°C up to +50°C Relative humidity: Maximum of 95 %

Order data

X, modular CPU for the S5, includes RS PLC CPU Software, includes serial parameterization cable

X5 / X7 CPU for AG 115U

Bestellnr.: 251000

€ 8.655,-

€ 8.655,-

€ 8.655,-

X5 / X7 CPU for AG 135/155U

Bestellnr.: 251001

X5 / X7 CPU for AG 150U

Bestellnr.: 251002

RS 5 Software (CPU 945 compatible)

Bestellnr.: 251010

RS 5 Software (CPU 948 compatible)

Bestellnr.: 251011

RS 7 Software (CPU 416 / 945 compatible

= mixed operation)
Bestellnr.: 251020

RS 7 Software (CPU 416 / 948 compatible

= mixed operation)
Bestellnr.: 251021

In the PLCs:

S5-115U,

S5-150U,

S5-135U

S5-155U

configured as and compatible with:

Stand: 07.2008

CPU 416



Phone: 0911 / 65 00 79-50 Email: info@aprotech.de Fax.: 0911 / 65 00 79-79 www.aprotech.de

Schleifweg 59

90409 Nürnberg