

Siemens 6ES5928-3UB12 Manual

Brand	Siemens
Product Series	Siemens
Product Type	-

Description

6ES5928-3UB12

CPU928B CENTR.CONTR

Packaging dimensions (L x W x H)

25,9 x 20,8 x 5,5 cm

Net weight

0,991 Kg

Application You can use the CPU 928B in single and multiprocessor operation in the S5-135U/155U central controller (see Chapter 6). Up to four CPUs can be used.

The CPU 928B is universally applicable, ensuring both very fast bit processing and very fast word processing:

- Time-controlled (9 different time bases) / Real-time controlled
- Interrupt-driven (hardware interrupt)

• Delayed (from Version 6ES5928-3UB12) The programming language is STEP 5.

Design The electronic circuitry of the CPU 928B is on two PCBs (basic and

expansion boards) in the double Eurocard format. Both PCBs are screwed together, linked via connectors, and must not be separated. The basic board provides the connection to the S5 bus via two backplane connectors. The front plate width is 2 2/3 standard plug-in stations.

User Memory You require a user memory submodule (RAM or EPROM) for storage of your

program. You can store up to 64 x 210 bytes of code and data blocks here. For data blocks, the CPU 928B additionally has an integrated DB RAM of 46 x 210 bytes.

A description of the memory submodules can be found in Sections 5.9 and 5.10; order numbers are given in the ordering information.

PG Interface SI1 There are two independent interfaces on the front of the CPU 928B.

You can connect programmers and OPs to the first interface. This PG interface SI1 is permanently installed on the CPU.

You can use PG interface SI1 either via the front connector of the CPU 928B or via the front connector of the 923C coordinator module.

Mode Switch The mode switch has two settings:

RUN In the RUN setting, the CPU 928B processes the user program when the green RUN LED is lit.

STOP The CPU 928B goes to the stop state when you switch from RUN to STOP. The red STOP LED then lights up.

Momentary- You can initiate the Overall Reset, Reset and Restart functions with the

Contact Mode momentary-contact mode switch:

Switch

OVERALL RESET Momentary-contact switch down

With an overall reset, all RAM areas are erased and initialized (both on the CPU and on a RAM submodule).

RESET Momentary-contact switch up

During a reset, all flags, timers, counters and the process image will be crased. OB 20 will be invoked. Processing of the user program will start from the beginning again.

Restart Momentary-contact switch at midpoint

With a restart, processing of the user program will continue from the point of interruption. The statuses of flags, timers, counters and the process image are retained during stoppage of the CPU.

Degree of protection IP 00

Climaticambient conditions See Technical Specifications of the S5-135U/155UCC

Mechanical ambient conditions See Technical Specifications of the S5-135U/155UCC

Noise immunity, electromagnetic See Technical Specifications of the S5-135U/155UCC

compatibility (EMC)

Supply voltage $5V \pm 5\%$

$24V + 25\% / -17\%$

Current consumption at 5 V 5 A typical

Current consumption at 24 V 760 mA max.

Backup voltage 3.4V

Backup current 20 μA typical (at25C)

Flags 2048

S flags 8192

Timers 256

Counters 256

Size of user memory 64 x 210 bytes max., EPROM or RAM

DB RAM 46 x 210 byte

Transmission rate of the serial PG interface 9600 bps

Program blocks PB 256

Sequence blocks SB 256

Function blocks FB 256

Function blocks FX 256

Data blocks DB 256, of which 253 are freely available

Data blocks DX 256, of which 253 are freely available

Organization blocks OB OB 1 to 39 (interfaces for operating system)

Integrated special function organization See Pocket Guide

blocks OB

Integrated serial interface PG interface

Optional serial interface Via interface submodules, optionally as V.24, TTY, RS 422A/485 or

PG interface

SINEC L1 interface from Version 6ES5 928-3UB12

Backplane bus S5 bus

Dimensions (w x h x d) 40.64 x 233.4x 160mm

Weight Approx. 1 kg

Technical Specifications

compatibility (EMC)

Supply voltage $5V \pm 5\%$

$24V + 25\% / -17\%$

Current consumption at 5 V 5 A typical

Current consumption at 24 V 760 mA max.

Backup voltage 3.4V

Backup current 20 μ A typical (at25C)

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