

# CPU 6ES7511-1CK01-0AB0

URL:<https://www.sxplc.com/cpu-6es7511-1ck01-0ab0>

## Product data sheet

General information

Product type designation CPU 1511C-1 PN

HW functional status FS01

Firmware version V1.8

Engineering with

● STEP 7 TIA Portal configurable/integrated as of

version

V13 SP1 Update 4

Configuration control

via dataset Yes

Display

Screen diagonal (cm) 3.45 cm

Control elements

Number of keys 6

Mode selector switch 1

Supply voltage

Type of supply voltage 24 V DC

permissible range, lower limit (DC) 19.2 V; 20.4 V DC, for supplying the digital inputs/outputs

permissible range, upper limit (DC) 28.8 V

Reverse polarity protection Yes

Mains buffering

● Mains/voltage failure stored energy time 5 ms; Refers to the power supply on the CPU section

Input current

Current consumption (rated value) 0.8 A; Digital onboard I/O modules are supplied separately

Inrush current, max. 1.9 A; Rated value

$I^2t \leq 0.34 \text{ A}^2 \cdot \text{s}$

#### Digital inputs

- from load voltage L+ (without load), max. 20 mA; per group

#### Digital outputs

- from load voltage L+, max. 30 mA; Per group, without load

#### Output voltage

Rated value (DC) 24 V

#### Encoder supply

Number of outputs 1; One common 24 V encoder supply

#### 24 V encoder supply

- 24 V Yes; L+ (-0.8 V)
- Short-circuit protection Yes
- Output current, max. 1 A

#### Power

Power consumption from the backplane bus

(balanced)

8.5 W

Infeed power to the backplane bus 10 W

Power loss

Power loss, typ. 11.8 W

Memory

SIMATIC Memory Card required Yes

Work memory

- integrated (for program) 175 kbyte

- integrated (for data) 1 Mbyte

Load memory

- Plug-in (SIMATIC Memory Card), max. 32 Gbyte

Backup

- maintenance-free Yes

CPU processing times

for bit operations, typ. 60 ns

for word operations, typ. 72 ns

for fixed point arithmetic, typ. 96 ns

for floating point arithmetic, typ. 384 ns

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