

# SIMATIC S7-1500 Advanced Controllers

## Central processing units

### Technology CPUs

#### Ordering data

##### STEP 7 Professional V17

Target system:  
SIMATIC S7-1200, S7-1500,  
S7-300, S7-400, WinAC

##### Requirement:

- Windows 10 (64-bit)
- Windows 10 Professional Version 1909, 2004, 20H2
  - Windows 10 Enterprise Version 1909, 2004, 20H2
  - Windows 10 IoT Enterprise 2016 LTSB
  - Windows 10 IoT Enterprise 2019 LTSC
  - Windows Server (64-bit)
  - Windows Server 2016 Standard (full installation)
  - Windows Server 2019 Standard (full installation)

##### Type of delivery:

9 languages: de, en, zh included, fr, sp, it, ru, jp, kr as download

STEP 7 Professional V17,  
floating license

STEP 7 Professional V17,  
floating license,  
software download including  
license key <sup>1)</sup>

Email address required for delivery

#### Article No.

**6ES7822-1AA07-0YA5**

**6ES7822-1AE07-0YA5**

#### Article No.

##### STEP 7 Safety Advanced V17

##### Task:

Engineering tool for configuring and programming fail-safe user programs for SIMATIC S7-1200 FC, S7-1500F, S7-1500F Software Controller, S7-300F, S7-400F, WinAC RTX F, ET 200SP F Controller and the fail-safe ET 200SP, ET 200MP, ET 200S, ET 200M, ET 200iSP, ET 200pro and ET 200eco I/O

##### Requirement:

STEP 7 Professional V17

##### Note:

As of TIA Portal V16, the SIMATIC STEP 7 Safety software is an integral component of the SIMATIC STEP 7 product setup. The functionality of SIMATIC STEP 7 Safety is activated by means of the license key supplied in each case.

Floating license for 1 user;  
license key on USB flash drive

Floating license for 1 user;  
license key for download <sup>1)</sup>;  
Email address required for delivery

**6ES7833-1FA17-0YA5**

**6ES7833-1FA17-0YH5**

##### SIMATIC Manual Collection

Electronic manuals on DVD, multi-language:  
LOGO!, SIMADYN,  
SIMATIC bus components,  
SIMATIC C7,  
SIMATIC Distributed I/O,  
SIMATIC HMI, SIMATIC sensors,  
SIMATIC NET, SIMATIC PC-based  
Automation, SIMATIC PCS 7,  
SIMATIC PG/PC, SIMATIC S7,  
SIMATIC software, SIMATIC TDC

**6ES7998-8XC01-8YE0**

##### SIMATIC Manual Collection update service for 1 year

Current Manual Collection DVD and the three subsequent updates

**6ES7998-8XC01-8YE2**

<sup>1)</sup> For up-to-date information and download availability, see:  
<http://www.siemens.com/tia-online-software-delivery>

#### Technical specifications

| Article number   | <b>6ES7511-1TK01-0AB0</b>               | <b>6ES7515-2TM01-0AB0</b>               | <b>6ES7516-3TN00-0AB0</b>               | <b>6ES7517-3TP00-0AB0</b>               | <b>6ES7518-4TP00-0AB0</b>               |
|--|---|---|---|---|---|
|  | CPU 1511T-1PN, 225KB progr., 1MB data   | CPU 1515T-2 PN, 750KB progr, 3MB data   | CPU 1516T-3 PN/DP, 1.5MB prog./5MB data | CPU 1517T-3 PN/DP, 3MB prog./8MB data   | CPU 1518T-4 PN/DP, 9MB Prog., 60MB data |
| <b>General information</b>                               |   |   |   |   |   |
| Product type designation                                 | CPU 1511T-1 PN                          | CPU 1515T-2 PN                          | CPU 1516T-3 PN/DP                       | CPU 1517T-3 PN/DP                       | CPU 1518T-4 PN/DP                       |
| <b>Engineering with</b>                                  |   |   |   |   |   |
| • STEP 7 TIA Portal configurable/integrated from version | V17 (FW V2.9) / V14 (FW V2.0) or higher | V17 (FW V2.9) / V14 (FW V2.0) or higher | V17 (FW V2.9) / V15 (FW V2.5) or higher | V17 (FW V2.9) / V14 (FW V2.0) or higher | V17 (FW V2.9) / V17 (FW V2.9) or higher |
| <b>Display</b>   |   |   |   |   |   |
| Screen diagonal [cm]                                     | 3.45 cm                                 | 6.1 cm                                  | 6.1 cm                                  | 6.1 cm                                  | 6.1 cm                                  |
| <b>Supply voltage</b>                                    |   |   |   |   |   |
| Type of supply voltage                                   | 24 V DC                                 | 24 V DC                                 | 24 V DC                                 | 24 V DC                                 | 24 V DC                                 |
| <b>Memory</b>  |   |   |   |   |   |
| <b>Work memory</b>                                       |   |   |   |   |   |
| • integrated (for program)                               | 225 kbyte                               | 750 kbyte                               | 1.5 Mbyte                               | 3 Mbyte                                 | 9 Mbyte                                 |
| • integrated (for data)                                  | 1 Mbyte                                 | 3 Mbyte                                 | 5 Mbyte                                 | 8 Mbyte                                 | 60 Mbyte                                |
| <b>Load memory</b>                                       |   |   |   |   |   |
| • Plug-in (SIMATIC Memory Card), max.                    | 32 Gbyte                                | 32 Gbyte                                | 32 Gbyte                                | 32 Gbyte                                | 32 Gbyte                                |