

AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7511-1TK01-0AB0

SIMATIC S7-1500T CPU 1511T-1 PN



PROGRAM MEMORY

225 KB

DATA MEMORY

1 MB

BIT PROCESSING

60 ns typical

MOTION RESOURCES

800 + 40 extended

Siemens 6ES7511-1TK01-0AB0 is the SIMATIC S7-1500T CPU 1511T-1 PN, a technology CPU with 225 KB of program work memory, 1 MB of data work memory and a two-port PROFINET IRT interface. The documented typical bit-operation time is 60 ns.

01

VERIFIED PRODUCT PARAMETERS

Program work memory	225 KB
Data work memory	1 MB
Typical bit-operation time	60 ns
PROFINET interface	One X1 interface with two-port IRT switch
Permissible DC supply	19.2 to 28.8 V DC; rated 24 V DC
Rated input current	0.7 A
Typical power loss	5.7 W
Motion Control resource pool	800 resources
Extended Motion Control resource pool	40 resources
Load memory	Required SIMATIC Memory Card; maximum 32 GB

Technical values were verified against Siemens equipment manual A5E36270833-AC, 05/2021; S7-1500 system manual and the Siemens Industry Mall record for the exact article number.

02 MECHANICAL AND LIFECYCLE DATA

Dimensions (W x H x D)	35 x 147 x 129 mm
Weight (official equipment manual)	Approx. 0.43 kg; source value 430 g
Country of origin	Germany
Lifecycle	PM410: Product cancellation; spare-part listing

03 SYSTEM ROLE AND APPLICATIONS

Extended Motion Control supports configured camming, leading axis proxies and kinematics. Select the technology objects, drives and encoders within the CPU resource and cycle-time limits; a compatible SIMATIC Memory Card and the matching engineering project are required.

- Handling portal: coordinate a supported kinematic arrangement within the project resource limits.
- Camming: synchronize a following axis to the configured master-position profile.
- Cross-PLC motion: engineer a leading axis proxy with the applicable synchronous operation.

04 OFFICIAL INSTALLATION FACTS

- Qualified personnel must secure the mechanism against unexpected movement and isolate the station supply.
- Mount the CPU and U connector on the S7-1500 rail; tighten the fixing screw to 1.5 Nm.
- For an X80 supply, connect 1L+ to +24 V DC and 1M to ground; 2L+ and 2M are internally bridged loop-through terminals.
- Observe the maximum 10 A loop-through limit and the permitted CPU supply range of 19.2 to 28.8 V DC.

05 OFFICIAL DOCUMENTATION

Siemens equipment manual A5E36270833-AC, 05/2021; S7-1500 system manual

AMIKON PRODUCT SUPPORT

Amikon Limited | INFO@AMIKON.CN