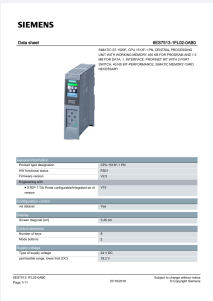


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7513-1FL02-0AB0

SIMATIC S7-1500F CPU 1513F-1 PN



PROGRAM MEMORY

450 KB

DATA MEMORY

1.5 MB

BIT PROCESSING

40 ns typical

PROFINET

Two-port IRT

Siemens 6ES7513-1FL02-0AB0 is the SIMATIC S7-1500F CPU 1513F-1 PN, a fail-safe central processing unit with 450 KB of program work memory and 1.5 MB of data work memory. Its integrated PROFINET IRT interface has two switched ports, and the documented typical bit-operation time is 40 ns.

01

VERIFIED PRODUCT PARAMETERS

Program work memory	450 KB
Data work memory	1.5 MB
Typical bit-operation time	40 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
Maximum input current	0.95 A (07/2018 datasheet)
Typical power loss	5.7 W
Load memory	Required SIMATIC Memory Card; maximum 32 GB
Trace recording	Four traces; up to 512 KB each (07/2018)
Central rack capacity	Up to 32 modules: CPU plus 31

02 MECHANICAL AND LIFECYCLE DATA

Dimensions (W x H x D)	35 x 147 x 129 mm
Weight (07/2018 official datasheet)	Approx. 0.41 kg; source value 405 g
Country of origin	Germany
Lifecycle	PM410: Product cancellation; spare-part listing

03 SYSTEM ROLE AND APPLICATIONS

A compatible SIMATIC Memory Card, configured I/O and the approved engineering project are required. Safety performance depends on the complete validated F-system; CPU processing time alone does not establish a machine safety response time. Check the actual hardware and firmware against the applicable Siemens documentation.

- Fail-safe logic: process the configured protection functions within a validated F-system.
- Timed acquisition: coordinate suitable I/O devices and the configured isochronous task.
- Sequence analysis: capture selected variables with the documented trace recording function.

04 OFFICIAL INSTALLATION FACTS

- Qualified personnel must establish the prescribed safe state and isolate the station supply before work.
- Install the CPU and U connector on the S7-1500 mounting rail; tighten its fixing screw to 1.5 Nm.
- Wire the X80 supply with the documented +24 V and ground assignment; permitted input is 19.2 to 28.8 V DC.
- Reconnect the identified PROFINET cables without changing the approved F-I/O and device assignments.

05 OFFICIAL DOCUMENTATION

[Siemens datasheet 07/2018; System Manual A5E03461182-AN, 11/2025](#)

AMIKON PRODUCT SUPPORT

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