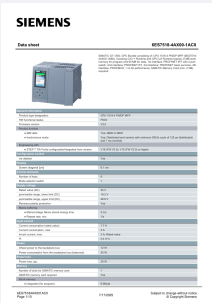


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7518-4AX00-1AC0

SIMATIC S7-1500 CPU 1518-4 PN/DP MFP Bundle



PROGRAM MEMORY	DATA MEMORY	BIT PROCESSING	MINIMUM CARD
6 MB	60 MB	1 ns typical	2 GB

Siemens 6ES7518-4AX00-1AC0 is a SIMATIC S7-1500 CPU 1518-4 PN/DP MFP bundle. Siemens identifies the included CPU as 6ES7518-4AX00-1AB0 and includes C/C++ Runtime and OPC UA Runtime licenses. The specified work memory is 6 MB for program and 60 MB for data, with 1 ns typical bit-operation time.

01

VERIFIED PRODUCT PARAMETERS

Program work memory	6 MB
Data work memory	60 MB
Typical bit-operation time	1 ns
CPU function-library memory	50 MB
C/C++ Runtime application memory	1024 MB
SIMATIC Memory Card capacity	Required; minimum 2 GB, maximum 32 GB
Interface allocation	X1 IRT; X2 RT; X3 basic services/runtime; X4 DP
Permissible DC supply	19.2 to 28.8 V DC; rated 24 V DC
Typical power loss	29 W
Maximum communication connections	384 via CPU interfaces and connected CPs/CMs

02 MECHANICAL AND LIFECYCLE DATA

Dimensions (W x H x D)	175 x 147 x 129 mm
Weight (07/2025 official datasheet)	Approx. 2.09 kg; source value 2093 g
Country of origin	Germany
Lifecycle	PM300; catalog phase-out date 1 November 2026

03 SYSTEM ROLE AND APPLICATIONS

The four interfaces serve different roles: X1 is two-port PROFINET IRT, X2 is PROFINET RT, X3 provides Ethernet basic services and C/C++ Runtime access, and X4 is PROFIBUS DP. A SIMATIC Memory Card of at least 2 GB is required. Confirm the complete bundle scope, application backups and installed software versions before replacement.

- Algorithm reuse: integrate validated C/C++ CPU function libraries with the STEP 7 control program.
- Parallel processing: run additional data-preparation and Industrial Ethernet tasks in the C/C++ environment.
- Machine variants: configure different approved real hardware arrangements within one maximum project configuration.

04 OFFICIAL INSTALLATION FACTS

- Qualified personnel must secure the machine, select STOP and isolate supply before wiring or removal.
- Fit the U connector and CPU on the S7-1500 rail; observe the system-manual fixing torque of 1.5 Nm.
- Use the MFP X80 assignment: 1L+ and 2L+ are +24 V; 1M and 2M are ground, with documented loop-through limits.
- Reconnect identified X1, X2, X3 and X4 cables; restore both CPU and C/C++ Runtime IP settings.

05 OFFICIAL DOCUMENTATION

Siemens DS 07/2025; MFP manual A5E40882737-AE 09/2025; system manual 11/2025

AMIKON PRODUCT SUPPORT

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