

INDUSTRIAL AUTOMATION PRODUCT

6ES7417-4XL04-0AB0

CPU Module

Siemens 6ES7417-4XL04-0AB0 is a SIMATIC S7-400 CPU 417-4 with 20 MB working memory and integrated MPI/DP capability. Match firmware, interface modules and the complete STEP 7 project before replacement.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
Complete model	6ES7417-4XL04-0AB0
Product role	CPU Module
System family	SIMATIC S7-400 CPU 417-4

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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6ES7417-4XL04-0AB0

Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	6ES7417-4XL04-0AB0
Controller family	SIMATIC S7-400
CPU	CPU 417-4
Working memory	20 MB total: 10 MB code and 10 MB data
Integrated load memory	256 KB RAM
Expandable FEPROM	Memory card up to 64 MB
Expandable RAM	Memory card up to 64 MB
Integrated communications	MPI/DP
Peripheral address area	16 KB inputs / 16 KB outputs
MPI/DP address area	2 KB inputs / 2 KB outputs
DP address area	8 KB inputs / 8 KB outputs
Process image	16 KB inputs / 16 KB outputs; preset 1024 bytes / 1024 bytes
Consistent data	Maximum 244 bytes
Digital channels	Maximum 131072 inputs / 131072 outputs
Analog channels	Maximum 8192 inputs / 8192 outputs
S7 counters	2048
S7 timers	2048
Typical bit operation	0.03 microseconds
Typical floating-point operation	0.09 microseconds

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Use only the complete Siemens 6ES7417-4XL04-0AB0 identity and the current manufacturer documentation. Confirm installed hardware, wiring, firmware or parameter compatibility and the approved maintenance record before replacement or release.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete Siemens 6ES7417-4XL04-0AB0 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion hardware arrangement before removal.

System Role and Architecture

Siemens 6ES7417-4XL04-0AB0 is a SIMATIC S7-400 CPU 417-4 with 20 MB working memory and integrated MPI/DP capability. Match firmware, interface modules and the complete STEP 7 project before replacement.

FUNCTION 1
High-performance CPU

FUNCTION 2
20 MB working memory

FUNCTION 3
MPI/DP communication

FUNCTION 4
Interface-module expansion

Common Applications

APPLICATION	ENGINEERING CONTEXT
Large process systems	Executes extensive S7-400 control projects.
High-speed machine control	Runs demanding sequence and interlock logic.
PROFIBUS DP integration	Coordinates configured distributed I/O.
Legacy maintenance	Preserves an installed CPU 417-4 project.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6ES7405-0KA02-0AA0	View Siemens 6ES7405-0KA02-0AA0
Siemens 6ES7407-0DA01-0AA0	View Siemens 6ES7407-0DA01-0AA0
Siemens 6ES7407-0RA02-0AA0	View Siemens 6ES7407-0RA02-0AA0
Siemens 6ES7410-5HX08-0AB0	View Siemens 6ES7410-5HX08-0AB0

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete Siemens 6ES7417-4XL04-0AB0 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion-hardware arrangement before removal.
4	Place the controller, drive or machine in the approved maintenance state before handling.
5	Use ESD controls and protect keyed connectors, terminals and circuit-board components.
6	Confirm the documented electrical and interface values for 6ES7417-4XL04-0AB0 before energization.
7	Restore wiring, shielding, grounding and mechanical retention exactly as documented.
8	Run model-specific diagnostics and a controlled functional test before production release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Siemens 6ES7417-4XL04-0AB0?	Siemens 6ES7417-4XL04-0AB0 is a SIMATIC S7-400 CPU 417-4 with 20 MB working memory and integrated MPI/DP capability. Match firmware, interface modules and the complete STEP 7 project before replacement.
Which product family includes 6ES7417-4XL04-0AB0?	The official manufacturer record identifies it within the SIMATIC S7-400 CPU 417-4 family.
Which exact identity must be retained?	Record the complete Siemens 6ES7417-4XL04-0AB0 marking; do not shorten or replace the suffix.
Which key technical value is documented?	Controller family: SIMATIC S7-400.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6ES7414-2XG02-0AB0	View Siemens 6ES7414-2XG02-0AB0
Siemens 6ES7414-2XL07-0AB0	View Siemens 6ES7414-2XL07-0AB0
Siemens 6ES7414-3EM07-0AB0	View Siemens 6ES7414-3EM07-0AB0
Siemens 6ES7414-3FM07-0AB0	View Siemens 6ES7414-3FM07-0AB0
Siemens 6ES7414-4HJ04-0AB0	View Siemens 6ES7414-4HJ04-0AB0

Model-Specific FAQ - Part 2

QUESTION	ANSWER
What must be checked before removal?	Record the slot, connectors, terminals, companion hardware and configured function from the installed system.
Can a nearby model be substituted?	No. A different suffix or family member requires documented electrical, mechanical, firmware and interface approval.
What installation controls are required?	Use the current manufacturer procedure, approved maintenance state, ESD controls and the documented wiring and grounding arrangement.
What confirms successful commissioning?	Identity and connections match the record, diagnostics pass and the controlled functional test has no unexplained fault.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6ES7414-4HM14-0AB0	View Siemens 6ES7414-4HM14-0AB0
Siemens 6ES7414-5HM06-0AB0	View Siemens 6ES7414-5HM06-0AB0
Siemens 6ES7416-2FN05-0AB0	View Siemens 6ES7416-2FN05-0AB0
Siemens 6ES7417-4HT14-0AB0	View Siemens 6ES7417-4HT14-0AB0
Siemens 6ES7421-1BL01-0AA0	View Siemens 6ES7421-1BL01-0AA0
Siemens 6ES7421-7BH01-0AB0	View Siemens 6ES7421-7BH01-0AB0
Siemens 6ES7422-1BL00-0AA0	View Siemens 6ES7422-1BL00-0AA0
Siemens 6ES7431-0HH00-0AB0	View Siemens 6ES7431-0HH00-0AB0
Siemens 6ES7431-7QH00-0AB0	View Siemens 6ES7431-7QH00-0AB0
Siemens 6ES7432-1HF00-0AB0	View Siemens 6ES7432-1HF00-0AB0
Siemens 6ES7450-1AP00-0AE0	View Siemens 6ES7450-1AP00-0AE0

MANUFACTURER SOURCE RECORD

S7-400 CPU Specifications
Siemens Industry Support CPU data for CPU 417-4 and exact 6ES7417-4XL04-0AB0 configuration

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