

6ES7417-4XT05-0AB0

SIMATIC S7-400 CPU 417-4

PUBLISHED IDENTITY

Siemens 6ES7417-4XT05-0AB0 is a SIMATIC S7-400 CPU 417-4 with 30 MB of work memory divided equally between code and data. Its integrated interfaces provide MPI at up to 12 Mbit/s and PROFIBUS DP communication.

Technical snapshot

Product family	SIMATIC S7-400
CPU designation	CPU 417-4
Work memory	30 MB total
Code memory	15 MB
Data memory	15 MB
First interface	MPI up to 12 Mbit/s
Second interface	Integrated PROFIBUS DP
Additional interfaces	Two slots for IF 964-DP modules

Verified related ApterPower product pages

Siemens 6ES7417-4HL04-0AB0

Siemens 6ES7417-5HT06-0AB0

Engineering data

Official evidence organized for exact-model review

Product family	SIMATIC S7-400
CPU designation	CPU 417-4
Work memory	30 MB total
Code memory	15 MB
Data memory	15 MB
First interface	MPI up to 12 Mbit/s
Second interface	Integrated PROFIBUS DP
Additional interfaces	Two slots for IF 964-DP modules

Bus current at 5 V DC	1.5 A typical; 1.8 A maximum
Backup current	225 µA typical up to 40 °C; 750 µA maximum
External backup voltage	5 to 15 V DC
Power loss	7.5 W typical
Firmware referenced in manual	V5.3
Programming package	STEP 7 V5.3 SP2 plus hardware update or later
Lifecycle status	Product cancelled; spare-part context

EVIDENCE BOUNDARY

Confirm the complete 6ES7417-4XT05-0AB0 order number, firmware, memory card and installed interface-module arrangement before exchange.

Applications and system role

Four distinct documented operating contexts

LARGE S7-400 CONTROLLER RACKS

Executes complex logic and data handling in a validated CPU 417-4 hardware configuration.

MPI ENGINEERING AND HMI ACCESS

Provides the recorded first-interface path for programming and operator communication.

PROFIBUS DP AUTOMATION

Coordinates documented distributed I/O and field-device exchanges through the integrated bus interface.

INSTALLED-BASE CPU REPLACEMENT

Restores the approved project, memory and interface arrangement for a cancelled S7-400 article.

Integration control

The CPU supports a broad S7 communication environment and uses the S7-400 bus for its operating supply. Before replacement, retain the STEP 7 project, firmware level, memory card, interface parameters and I/O configuration. Once the validated project is restored, examine the diagnostic buffer, communication resources, process image and every affected control sequence before the rack returns to operation.

Verified related ApterPower product pages

Siemens 6ES7431-7QH00-0AB0

Siemens 6ES7417-4XL04-0AB0

Technical questions

Complete model-specific answers from the approved evidence set

Which controller function is provided by Siemens 6ES7417-4XT05-0AB0?

Siemens 6ES7417-4XT05-0AB0 is the CPU 417-4 central processing unit for a configured SIMATIC S7-400 automation rack.

How is the work memory arranged in Siemens 6ES7417-4XT05-0AB0?

Siemens 6ES7417-4XT05-0AB0 provides 30 MB of work memory, divided into 15 MB for code and 15 MB for data.

What communication speed does the MPI interface of Siemens 6ES7417-4XT05-0AB0 support?

The first interface on Siemens 6ES7417-4XT05-0AB0 supports MPI communication at up to 12 Mbit/s.

Which fieldbus is integrated as the second interface on Siemens 6ES7417-4XT05-0AB0?

The second integrated interface on Siemens 6ES7417-4XT05-0AB0 is PROFIBUS DP.

Can Siemens 6ES7417-4XT05-0AB0 accept additional interface modules?

Siemens 6ES7417-4XT05-0AB0 provides two slots for optional IF 964-DP interface modules.

How much 5 V backplane current does Siemens 6ES7417-4XT05-0AB0 require?

Siemens 6ES7417-4XT05-0AB0 typically draws 1.5 A from the 5 V S7-400 bus and has a stated maximum of 1.8 A.

Which external backup voltage is permitted for Siemens 6ES7417-4XT05-0AB0?

Siemens 6ES7417-4XT05-0AB0 accepts an external backup supply in the range from 5 to 15 V DC.

What must be validated after Siemens 6ES7417-4XT05-0AB0 is replaced?

The acceptance test for Siemens 6ES7417-4XT05-0AB0 should verify firmware, memory, the STEP 7 hardware configuration, all communication paths, diagnostics and affected process functions.

Product precautions

Eight aligned controls before return to service

1

Record the full Siemens 6ES7417-4XT05-0AB0 order number and firmware level.

2

Back up the STEP 7 project, hardware configuration and diagnostic records.

3

Place the controlled process and S7-400 rack in the approved maintenance state.

4

Isolate rack power and identify the memory card, MPI and PROFIBUS connections.

5

Document both optional IF-module slots and every installed interface assignment.

6

Inspect backplane contacts, backup supply and connector condition before seating the CPU.

7

Restore the validated project and review the diagnostic buffer after startup.

8

Test communications, program execution and all affected process functions before release.

Verified related ApterPower product pages

Siemens 6ES7334-0CE01-0AA0

Siemens 6ES7235-0KD22-0XA0

Siemens 6ES7314-6BH04-0AB0

Siemens 6ES7517-3AP00-0AB0

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Siemens SIMATIC S7-400 Automation System CPU Specifications, manual A5E00850746-08, section 10.9.
- Siemens Industry Mall product record for 6ES7417-4XT05-0AB0.
- Siemens CPU 417-4 interface, memory, current and backup-supply specification tables.

Verified related ApterPower product pages

Siemens 6ES7315-2EG10-0AB0

Siemens 6ES5928-3UB12

Siemens 6ES7214-1BD23-0XB0

Siemens 6AV6647-0AG11-3AX0

Talk to Apter Power

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



Siemens 6ES5470-4UA12

Siemens 6ES5465-4UA12

Siemens 39RTMCAN

Siemens 6ES7410-5HX08-0AB0