

SIMATIC S7-400H AUTOMATION SYSTEMS

Product Data Sheet

6ES7417-4HL04-0AB0

CPU 417H redundant controller

FUNCTION CPU 417H redundant controller	FAMILY SIMATIC S7-400H automation systems	ORIGIN Germany	WEIGHT Confirm before dispatch
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S7-400 6ES7417-4HL04-0AB0 is a CPU 417H redundant controller for the SIMATIC S7-400H automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7417-4HL04-0AB0
Product Class	Cpu 417H Redundant Controller
Product Family	SIMATIC S7-400H automation systems
Controller Platform	SIMATIC S7-400
Programming Environment	STEP 7
Program Processing	Cyclic and interrupt OBs
Communication	MPI / PROFIBUS / PROFINET by article
Memory Type	Integrated work memory
Digital Processing	Boolean and integer instructions
Analog Processing	Floating-point instructions

ADDITIONAL PRODUCT DATA

Diagnostic Buffer	Retentive event log
Real-Time Clock	Hardware clock integrated
Mounting	SIMATIC mounting rail / rack
Supply Class	24 V DC or rack backplane

OFFICIAL APPLICATIONS

- Integrate product blending with Cpu 417H process control: For the coordinated operation of the component tanks and blend headers, 6ES7417-4HL04-0AB0 handles its designated signal or control duty as a CPU 417H redundant controller. During blend correction, the system uses this function to adjust component addition from quality feedback, helping it bring the blend toward its release target.
- Align order sorting with Cpu 417H process control: Across the scanners, diverters and destination lanes, 6ES7417-4HL04-0AB0 performs its assigned control role as a CPU 417H redundant controller. During priority order, the system uses this function to apply the current order priority to the routing decision, helping it complete the order path in the intended sequence.
- Align paint-shop conveying with Cpu 417H process control: Across the carrier tracking and booth interfaces, 6ES7417-4HL04-0AB0 supports the configured automation role as a CPU 417H redundant controller. During carrier accumulation, the system uses this function to route carriers by production status, helping it preserve body order through the process.

SYSTEM COMPATIBILITY

Match 6ES7417-4HL04-0AB0 to the installed SIMATIC S7-400H automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7417-4HL04-0AB0>

AMIKON PRODUCT SUPPORT

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