

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7317-2AK14-0AB0

Dual Interface Central Processor



TYPE	MEMORY	PORTS	RETENTIVE
CPU 317-2 DP	1 MB	MPI/DP + DP	256 KB max.

Siemens 6ES7317-2AK14-0AB0 is a SIMATIC S7-300 CPU 317-2 DP with 1 MB of working memory. Its first RS 485 interface supports MPI or PROFIBUS DP, while the second provides PROFIBUS DP master or slave communication.

01

VERIFIED TECHNICAL INFORMATION

Working memory	1,024 KB integrated; not expandable
Retentive data	256 KB maximum total
Load memory	Required SIMATIC MMC; 8 MB maximum
Memory backup	Maintenance-free MMC backup without battery
Bit-operation processing	0.025 microsecond minimum
S7 counters and timers	512 counters and 512 timers
I/O address area	8,192 bytes inputs and 8,192 bytes outputs

Manufacturer evidence: CPU 31xC and CPU 31x: Installation; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Process image	Up to 8,192 bytes per direction; 256 bytes default
Rack configuration	Four racks maximum; eight modules per rack
First interface	Isolated RS 485; MPI or DP master/slave; up to 12 Mbit/s
Second interface	Isolated RS 485 DP master/slave; up to 12 Mbit/s; no MPI
Communication connections	32 total
Diagnostic buffer	500 entries; last 100 retained across power failure
Supply voltage	24 V DC nominal; 19.2-28.8 V permitted
Typical power loss	4.5 W

03 SOURCE AND CONFIGURATION CHECKS

The processor requires a SIMATIC Micro Memory Card and provides battery-free program and data backup. Larger addressing resources, 32 communication connections and a five-hundred-entry diagnostic buffer support expanded control configurations, with separate limits governing retained data and the functions available on each interface.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Siemens original documentation and product reference

AMIKON PRODUCT SUPPORT

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