AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7312-1AE13-0AB0

MPI Programmable Central Processor



TYPE	MEMORY	NETWORK	SUPPLY
CPU 312	**32 KB**	**MPI**	**24 V DC**

Siemens 6ES7312-1AE13-0AB0 is a SIMATIC S7-300 CPU 312 with 32 KB of working memory, an integrated MPI interface and a nominal 24 V DC supply. A SIMATIC Micro Memory Card stores the load program and supports battery-free retention of program and data.

01 VERIFIED TECHNICAL INFORMATION

Working memory	32 KB for program and data; not expandable
Load memory	Required plug-in SIMATIC MMC; 4 MB maximum
Memory backup	Maintenance-free MMC backup; program and data without battery
Bit-operation processing time	0.2 microseconds typical
S7 counters and timers	128 counters and 128 timers
I/O address area	1 KB inputs and 1 KB outputs
Process image	128 bytes inputs and 128 bytes outputs

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

02 TECHNICAL INFORMATION CONTINUED

Rack configuration	One rack; eight modules maximum; no expansion units
Integrated I/O	No integrated DI, DO, AI or AO channels
Integrated interface	One non-isolated RS 485 MPI port; no integrated Ethernet or PROFIBUS DP
MPI rate and connections	187.5 kbit/s maximum; six connections
Diagnostic buffer	100 entries; not adjustable
Supply voltage	24 V DC nominal; 20.4-28.8 V permitted
Typical power loss	2.5 W
Engineering package	STEP 7 V5.2 + SP1 or higher with hardware update

03 SOURCE AND CONFIGURATION CHECKS

The processor accommodates a single rack with up to eight modules and provides no integrated digital or analog channels. Its MPI services support programming and operator communication, while software diagnostics, variable monitoring and a fixed one-hundred-entry diagnostic buffer assist commissioning and maintenance.

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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