AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7315-1AF03-0AB0

MPI Program Processing Module



TYPE	WORK RAM	LOAD RAM	NETWORK
CPU 315	**48 KB**	**80 KB**	**MPI**

Siemens 6ES7315-1AF03-0AB0 is a SIMATIC S7-300 CPU 315 with 48 KB of working memory and an MPI interface. Its load-memory arrangement combines 80 KB of integrated RAM with support for Flash-EPROM expansion, distinguishing it from later MMC-based CPUs.

01 VERIFIED TECHNICAL INFORMATION

Working memory	48 KB integrated RAM
Integrated load memory	80 KB RAM
Flash load-memory expansion	Flash-EPROM up to 4 MB
Battery-backed storage	All program blocks can be backed up with battery
Bit-operation processing time	0.3 microsecond typical
S7 counters	64
S7 timers	128; range 10 ms-9,990 s

Manufacturer evidence: PLC S7-300, CPU Specifications CPU 312 IFM to CPU 318-2 DP; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Data blocks	255 maximum; 16 KB per DB
Function blocks and functions	192 FBs and 192 FCs maximum; 16 KB per block
Process image	128 bytes inputs and 128 bytes outputs
Real-time clock	Hardware clock provided
Integrated communication	MPI up to 187.5 kbit/s; no integrated DP master
Supply voltage	24 V DC nominal; 20.4-28.8 V allowed
Rated input current	1,000 mA at 24 V DC
Maximum power loss	8 W

03 SOURCE AND CONFIGURATION CHECKS

The processor supports structured STEP 7 programs, a hardware real-time clock, 64 counters and 128 timers. Battery-backed storage and configurable retention support program and data handling, while compatible S7-300 modules provide the field connections required by the configured station.

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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