AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7412-1XJ07-0AB0

S7-400 CPU 412-1 Processor

WORK MEMORY	CODE / DATA	INTEGRATED PORT	BUS RATE
512 KB	**256 KB each**	**One MPI/DP**	**Up to 12 Mbps**

The Siemens 6ES7412-1XJ07-0AB0 CPU 412-1 divides its 512 KB work memory equally between program code and data. It uses the S7-400 system power supply and provides one combined MPI/PROFIBUS DP interface. The interface can support programming, operator communication or configured PROFIBUS functions within the documented resource limits.

01 VERIFIED TECHNICAL INFORMATION

Work memory	512 KB: 256 KB program and 256 KB data; not expandable
Integrated load RAM	512 KB
Maximum load-memory expansion	64 MB using a suitable RAM or FLASH memory card
Engineering package	STEP 7 V5.4 or higher with HSP 261
Integrated interface	One combined MPI/PROFIBUS DP RS485 interface
Maximum interface transmission rate	12 Mbps
Integrated DP-master slave limit	32 DP slaves

Manufacturer evidence: S7-400 Automation System, CPU Specifications; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

MPI and DP connection resources	MPI 32; DP 16, subject to the documented repeater limitation
I/O address area	4 KB inputs and 4 KB outputs
Process image	128 bytes each by default; configurable to 4 KB each
Typical basic-operation time	31.25 ns for bit, word and integer operations
Typical floating-point operation time	62.5 ns
Backplane 5 V consumption	Typical 0.7 A; maximum 0.8 A
Typical power loss	3.5 W
Operating ambient temperature	0 to 60 °C

03 SOURCE AND CONFIGURATION CHECKS

Program storage is separate from execution memory. A suitable RAM or FLASH card expands load memory to 64 MB without enlarging the fixed work-memory areas. This non-PN processor has no integrated PROFINET IO controller or web server; supported Ethernet functions require separately configured communication hardware.

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

Siemens 11/2006; H06 source pp. 2,45-48,153-154

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN

AMIKONG.COM