AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7412-2XK07-0AB0

S7-400 CPU 412-2 Processor



WORK MEMORY	CODE / DATA	CPU PORTS	DP SLAVE LIMITS
1 MB	**512 KB each**	**MPI/DP + DP**	**32 / 64**

The 6ES7412-2XK07-0AB0 CPU 412-2 provides 1 MB of work memory, divided equally between program code and data. Its combined MPI/PROFIBUS DP interface and separate PROFIBUS DP interface use RS485 communication. Both support a maximum bus rate of 12 Mbps.

01 VERIFIED TECHNICAL INFORMATION

Work memory	1 MB: 512 KB program and 512 KB data; not expandable
Integrated load RAM	512 KB
Maximum expanded load memory	64 MB with suitable RAM or FLASH card
Integrated interfaces	One MPI/PROFIBUS DP and one PROFIBUS DP, both RS485
Maximum bus rate	12 Mbps
DP-master slave limits	First combined interface: 32; second DP interface: 64
Distributed address limits	First interface: 2 KB each input/output; second: 4 KB each

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

02 TECHNICAL INFORMATION CONTINUED

Total I/O address area	4 KB inputs and 4 KB outputs
Process image partitions	Maximum 15
Engineering package	STEP 7 V5.4 or higher with HSP 261
Typical operation times	31.25 ns bit/word/integer; 62.5 ns floating point
Backplane 5 V current	Typical 0.9 A; maximum 1.1 A
Backplane 24 V current	Maximum 300 mA; 150 mA per DP interface
Typical power loss	4.5 W
Operating ambient temperature	0 to 60 °C

03 SOURCE AND CONFIGURATION CHECKS

The two networks have different capacity limits: up to 32 DP slaves on the combined interface and 64 on the second. Their address limits must remain within the CPU's overall I/O area. This non-PN processor does not provide an integrated PROFINET IO controller.

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