

Data sheet

CPU 517S/DPM (517-2AJ02)

Technical data

Order no.	517-2AJ02
Туре	CPU 517S/DPM
Constal information	
General information	
Note	-
Features	SPEED7 technology 2 MB work memory Memory extension (max. 8 MB) PROFIBUS-DP master
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	250 mA
Current consumption (rated value)	1 A
Inrush current	5 A
2 _t	0.5 A²s
Max. current drain at backplane bus	-
Max. current drain load supply	-
Power loss	5 W
Load and working memory	
Load memory, integrated	8 MB
Load memory, maximum	8 MB
Work memory, integrated	2 MB
Work memory, maximal	8 MB
Memory divided in 50% program / 50% data	yes
Memory card slot	MMC-Card with max. 1 GB
Hardware configuration	
Racks, max.	-
Modules per rack, max.	-
Number of integrated DP master	1
Number of DP master via CP	-
Operable function modules	-
Operable communication modules PtP	-
Operable communication modules LAN	-
Command processing times	
Bit instructions, min.	0.01 μs
Word instruction, min.	0.01 μs
Double integer arithmetic, min.	0.01 μs

Timers/Counters and their retentive characteristics



Number of S7 counters	2048 A YASKAWA COMPANY	
S7 counter remanence	adjustable 0 up to 2048	
S7 counter remanence adjustable	C0 C7	
Number of S7 times	2048	
S7 times remanence	adjustable 0 up to 2048	
S7 times remanence adjustable	not retentive	
Data range and retentive characteristic		
Number of flags	16384 Byte	
Bit memories retentive characteristic adjustable	adjustable 0 up to 16384	
Bit memories retentive characteristic preset	MB0 MB15	
Number of data blocks	8190	
Max. data blocks size	64 KB	
Number range DBs	1 8190	
Max. local data size per execution level	510 Byte	
Max. local data size per block	-	
Blocks		
Number of OBs	24	
Maximum OB size	64 KB	
Total number DBs, FBs, FCs	-	
Number of FBs	8191	
Maximum FB size	64 KB	
Number range FBs	0 8190	
Number of FCs	8191	
Maximum FC size	64 KB	
Number range FCs	0 8190	
Maximum nesting depth per priority class	8	
Maximum nesting depth additional within an error OB	4	
Time		
Real-time clock buffered	yes	
Clock buffered period (min.)	6 w	
Type of buffering	Vanadium Rechargeable Lithium Battery	
Load time for 50% buffering period	20 h	
Load time for 100% buffering period	48 h	
Accuracy (max. deviation per day)	10 s	
Number of operating hours counter	8	
Clock synchronization	yes	
Synchronization via MPI	Master/Slave	
Synchronization via Ethernet (NTP)	no	
Address areas (I/O)		
Input I/O address area	8192 Byte	
Output I/O address area	8192 Byte	
Process image adjustable	yes	
Input process image preset	256 Byte	
Output process image preset	256 Byte	
Input process image maximal	8192 Byte	
Output process image maximal	8192 Byte	



Digital inputs	65536 A YASKAWA COMPANY
Digital outputs	65536
Digital inputs central	
Digital outputs central	
Integrated digital inputs	
Integrated digital outputs	
Analog inputs	4096
Analog outputs	4096
Analog inputs, central	
Analog outputs, central	
Integrated analog inputs	-
Integrated analog outputs	
Communication functions	
PG/OP channel	yes
Global data communication	yes
Number of GD circuits, max.	16
Size of GD packets, max.	54 Byte
S7 basic communication	yes
S7 basic communication, user data per job	76 Byte
S7 communication	yes
S7 communication as server	yes
S7 communication as client	-
S7 communication, user data per job	160 Byte
Number of connections, max.	32
Europianolity Sub Dinterfeees	
Functionality Sub-D interfaces	Va
Type Type of interfees	X2 RS485
Type of interface	
Connector	Sub-D, 9-pin, female
Electrically isolated	yes
MPI MP3/(MPI/DC222)	yes
MP²l (MPI/RS232) DP master	-
DP slave	-
Point-to-point interface	- CONTA instituted
5V DC Power supply	max. 90mA, isolated
24V DC Power supply	max. 100mA, non-isolated
Туре	Х3
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Electrically isolated	yes
MPI	-
MP²I (MPI/RS232)	-
DP master	yes
DP slave	yes
Point-to-point interface	-
5V DC Power supply	max. 90mA, isolated



24V DC Power supply max. 100mA, non-isolated **Functionality MPI** Number of connections, max. 32 PG/OP channel yes Routing yes Global data communication yes S7 basic communication yes S7 communication ves S7 communication as server yes S7 communication as client Transmission speed, min. 19.2 kbit/s 12 Mbit/s Transmission speed, max. **Functionality PROFIBUS master** PG/OP channel yes Routing yes S7 basic communication yes S7 communication ves S7 communication as server yes S7 communication as client Activation/deactivation of DP slaves yes Direct data exchange (slave-to-slave communication) DPV1 yes Transmission speed, min. 9.6 kbit/s 12 Mbit/s Transmission speed, max. Number of DP slaves, max. 32 Address range inputs, max. 1 KB Address range outputs, max. 1 KB User data inputs per slave, max. 244 Byte User data outputs per slave, max. 244 Byte **Functionality PROFIBUS slave** PG/OP channel yes Routing ves S7 communication yes S7 communication as server yes S7 communication as client Direct data exchange (slave-to-slave communication) DPV1 yes Transmission speed, min. 9.6 kbit/s Transmission speed, max. 12 Mbit/s Automatic detection of transmission speed Transfer memory inputs, max. 244 Byte Transfer memory outputs, max. 244 Byte Address areas, max. 32 User data per address area, max. 32 Byte **Functionality RJ45 interfaces** n/d



Type of interface	Ethernet 10/100 MBit	A YASKAWA COMPANY
Connector	PCI bus	
Electrically isolated	yes	
PG/OP channel	yes	
Number of connections, max.	4	
Productive connections	-	
Type	-	
Type of interface	-	
Connector	-	
Electrically isolated	-	
PG/OP channel	-	
Number of connections, max.	-	
Productive connections	-	
Ethernet communication CP		
Number of productive connections, max.	-	
Number of productive connections by Siemens NetPro, max.	-	
S7 connections	-	
User data per S7 connection, max.	-	
TCP-connections	-	
User data per TCP connection, max.	-	
ISO-connections	-	
User data per ISO connection, max.	-	
ISO on TCP connections (RFC 1006)	-	
User data per ISO on TCP connection, max.	-	
UDP-connections	-	
User data per UDP connection, max.	-	
UDP-multicast-connections	-	
UDP-broadcast-connections	-	
Ethernet open communication		
Number of connections, max.	-	
User data per ISO on TCP connection, max.	-	
User data per native TCP connection, max.	-	
User data per ad hoc TCP connection, max.	-	
User data per UDP connection, max.	-	
Housing		
Material	_	
Mounting	-	
Mechanical data		
Dimensions (WxHxD)	20 mm x 106 mm x 174 mm	
Weight	290 g	
Environmental conditions Operating temperature	0 °C to 60 °C	
Operating temperature		
Storage temperature	-25 °C to 70 °C	



Certifications

UL certification	in preparation
KC certification	-