

Data sheet

CPU 515S/DPM (515-2AJ02)

Technical data

Order no.	515-2AJ02
Туре	CPU 515S/DPM
General information	
Note	
Features	SPEED7 technology 1 MB work memory Memory extension (max. 2 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	✓
Current consumption (no-load operation)	250 mA
Current consumption (rated value)	1 A
Inrush current	5 A
2 _t	0.5 A ² s
Max. current drain at backplane bus	-
Power loss	5 W
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	✓
Current consumption (no-load operation)	250 mA
Current consumption (rated value)	1 A
Inrush current	5 A
l 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	2 MB
Load memory, maximum	2 MB
Work memory, integrated	1 MB
Work memory, maximal	2 MB
Memory divided in 50% program / 50% data	✓
Memory card slot	MMC-Card with max. 1 GB
Hardware configuration	
Racks, max.	-
Modules per rack, max.	-
Number of integrated DP master	1



Coperable function modules PIP -	Number of DP master via CP	_ A YASKAWA COMPAN
Operable communication modules LAN - Command processing times Bit instructions, min. 0.01 µs Word instruction, min. 0.01 µs Double integer antimetic, min. 0.01 µs Floating-point arithmetic, min. 0.08 µs Timers/Counters and their retentive characteristics stage to the		
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Load time for 100% buffering period 48 h	Type of buffering	Vanadium Rechargeable Lithium Battery
*	Load time for 50% buffering period	20 h
Accuracy (max. deviation per day) 10 s	Load time for 100% buffering period	48 h
	Accuracy (max. deviation per day)	10 s



Number of operating hours counter	8	A YASKAWA COMPANY
Clock synchronization	✓	
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	✓	
Input process image preset	256 Byte	
Output process image preset	256 Byte	
Input process image maximal	2048 Byte	
Output process image maximal	2048 Byte	
Digital inputs	65536	
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	✓	
Global data communication	✓	
Number of GD circuits, max.	16	
Size of GD packets, max.	54 Byte	
S7 basic communication	✓	
S7 basic communication, user data per job	76 Byte	
S7 communication	✓	
S7 communication as server	✓	
S7 communication as client	-	
S7 communication, user data per job	160 Byte	
Number of connections, max.	32	
Functionality Sub-D interfaces		
Туре	X2	
Type of interface	RS485	
Connector	Sub-D, 9-pin, female	
Electrically isolated	✓	
MPI	✓	
MP²I (MPI/RS232)	-	
DP master	-	



DP slave	_ A YASKAWA COMPANY
Point-to-point interface	-
Туре	X3
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Electrically isolated	✓
MPI	-
MP²l (MPI/RS232)	-
DP master	yes
DP slave	yes
Point-to-point interface	-
Functionality MPI	
Number of connections, max.	32
PG/OP channel	✓
Routing	✓
Global data communication	✓
S7 basic communication	✓
S7 communication	✓
S7 communication as server	✓
S7 communication as client	-
Transmission speed, min.	19.2 kbit/s
Transmission speed, max.	12 Mbit/s
Functionality PROFIBUS master	
PG/OP channel	√
Routing	√
S7 basic communication	√
S7 communication	√
S7 communication as server	√
S7 communication as client	
Activation/deactivation of DP slaves	√
Direct data exchange (slave-to-slave communication)	
DPV1	✓
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
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	√
	Y



Routing	✓	A YASKAWA COMPANY
S7 communication	✓	
S7 communication as server	√	
S7 communication as client	-	
Direct data exchange (slave-to-slave communication)	-	
DPV1	√ .	
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		
Туре	n/d	
Type of interface	Ethernet 10/100 MBit	
Connector	PCI bus	
Electrically isolated	✓	
PG/OP channel	✓	
Number of connections, max.	4	
Productive connections	-	
Туре	_	
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	-	



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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	280 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	

in preparation

UL508 certification