

Data sheet SLIO CPU 015 (015-CEFPR00)

Technical data

Order no.	015-CEFPR00	
Туре	SLIO CPU 015	
General information		
Note		
Features	SPEED7 technology 256 kB work memory Memory extension (max. 512 kB) via VIPASetCard PROFIBUS slave/master activatable via VIPASetCard Full-switchable serial interface integrated PROFINET controller for up to 128 participants integrated	
SPEED-Bus	-	
Technical data power supply		
Power supply (rated value)	DC 24 V	
Power supply (permitted range)	DC 20.428.8 V	
Reverse polarity protection	1	
Current consumption (no-load operation)	270 mA	
Current consumption (rated value)	1.1 A	
Inrush current	3 A	
l²t	0.1 A²s	
Max. current drain at backplane bus	3 A	
Power loss	8.5 W	
Load and working memory		
Load memory, integrated	512 KB	
Load memory, maximum	512 KB	
Work memory, integrated	256 KB	
Work memory, maximal	512 KB	
Memory divided in 50% program / 50% data	1	
Memory card slot	MMC-Card with max. 2 GB	
Hardware configuration		
Racks, max.	1	
Modules per rack, max.	64	
Number of integrated DP master	1	
Number of DP master via CP		
Operable function modules	64	
Operable communication modules PtP	64	
Operable communication modules LAN	-	
Status information, alarms, diagnostics		
Status display	yes	
Interrupts	no	
Process alarm	no	
Diagnostic interrupt	no	
Command processing times		
Bit instructions, min.	0.01 µs	
Word instruction, min.	0.01 µs	



Double integer arithmetic, min.	0.01 µs	A YASKAWA COMPANY
Floating-point arithmetic, min.	0.06 µs	
Timers/Counters and their retentive characteri		
	510	
Number of S7 counters	512	
Number of S7 times	512	
Data range and retentive characteristic		
Number of flags	8192 Byte	
Number of data blocks	8190	
Max. data blocks size	64 KB	
Max. local data size per execution level	1024 Byte	
Blocks		
Number of OBs	24	
Number of FBs	8191	
Number of FCs	8191	
Maximum nesting depth per priority class	16	
Maximum nesting depth additional within an error OB	4	
Time		
Real-time clock buffered	1	
Clock buffered period (min.)	30 d	
Accuracy (max. deviation per day)	10 s	
Number of operating hours counter	8	
Clock synchronization	1	
Synchronization via MPI	Master/Slave	
Synchronization via Ethernet (NTP)	Slave	
Address areas (I/O)		
Input I/O address area	2048 Byte	
Output I/O address area	2048 Byte	
Input process image maximal	2048 Byte	
Output process image maximal	2048 Byte	
Digital inputs	16384	
Digital outputs	16384	
Digital inputs central	512	
Digital outputs central	512	
Integrated digital inputs	-	
Integrated digital outputs	-	
Analog inputs	1024	
Analog outputs	1024	
Analog inputs, central	256	
Analog outputs, central	256	
Integrated analog inputs	-	
Integrated analog outputs	-	
Communication functions		
PG/OP channel	1	
Global data communication	1	
Number of GD circuits, max.	8	
	-	

Size of GD packets, max.

22 Byte



S7 basic communication	1	A YASKAWA COMPANY
S7 basic communication, user data per job	76 Byte	
S7 communication	<u>ا</u>	
S7 communication as server	v	
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	1	
MPI	1	
MP²I (MPI/RS232)	-	
Point-to-point interface	✓	
Туре	Х3	
Type of interface	RS485	
Connector	Sub-D, 9-pin, female	
Electrically isolated	1	
MPI	-	
MP²I (MPI/RS232)	-	
Point-to-point interface	-	
Functionality MPI		
Number of connections, max.	32	
PG/OP channel	1	
Routing	 ✓ 	
Global data communication	1	
S7 basic communication	✓	
S7 communication	s.	
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	1	
Routing	1	
S7 basic communication	s.	
S7 communication	s.	
S7 communication as server	s.	
S7 communication as client	-	
Equidistance support	-	
Isochronous mode	-	



SYNC/FREEZE	_ A YASKAWA COMPANY
Activation/deactivation of DP slaves	-
Direct data exchange (slave-to-slave communication)	-
DPV1	1
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Number of DP slaves, max.	124
Address range inputs, max.	2 KB
Address range outputs, max.	2 KB
User data inputs per slave, max.	244 Byte
User data outputs per slave, max.	244 Byte
Functionality PROFIBUS slave	,
PG/OP channel	٧
Routing	
S7 communication	2
S7 communication as server	×
S7 communication as client	-
Direct data exchange (slave-to-slave communication)	-
DPV1	 Image: A second s
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
Realtime Class	-
Conformance Class	PROFINET IO
Number of PN IO devices	128
IRT support	-
Prioritized start-up	-
Number of PN IO lines	1
Address range inputs, max.	2 KB
Address range outputs, max.	2 KB
Transmiting clock	1 ms
Update time	1 ms 512 ms
Point-to-point communication	
PtP communication	A
Interface isolated	1
RS232 interface	
RS422 interface	-
RS485 interface	1
Connector	Sub-D, 9-pin, female
Transmission speed, min.	150 bit/s
Transmission speed, max.	115.5 kbit/s



Cable length, max.	500 m A YASKAWA COMPAN
Point-to-point protocol	
ASCII protocol	v
STX/ETX protocol	9
3964(R) protocol	1
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RK512 protocol USS master protocol	√
Modbus master protocol	4
Modbus slave protocol	1
Special protocols	-
Functionality RJ45 interfaces	
Туре	X1
Type of interface	Ethernet 10/100 MBit
Connector	RJ45
Electrically isolated	A
PG/OP channel	×
Number of connections, max.	4
Productive connections	-
Туре	X4
Type of interface	Ethernet 10/100 MBit
Connector	RJ45
Electrically isolated	~
PG/OP channel	1
Number of connections, max.	8
Productive connections	4
Ethernet communication CP	
Number of productive connections, max.	8
Number of productive connections by Siemens NetPro, max.	8
S7 connections	BSEND, BRCV, GET, PUT, Connection of active and passive data handling
User data per S7 connection, max.	32 KB
TCP-connections	FETCH PASSIV, WRITE PASSIV, Connection of passive data handling
User data per TCP connection, max.	64 KB
ISO-connections	-
User data per ISO connection, max.	-
ISO on TCP connections (RFC 1006)	FETCH PASSIV, WRITE PASSIV, Connection of passive data handling
User data per ISO on TCP connection, max.	32 KB
UDP-connections	
User data per UDP connection, max.	-
UDP-multicast-connections	-
UDP-broadcast-connections	-
Ethernet open communication	
Number of connections, max.	8



User data per ISO on TCP connection, max.	8 KB	A YASKAWA COMPANY
User data per native TCP connection, max.	8 KB	
User data per ad hoc TCP connection, max.	1460 Byte	
User data per UDP connection, max.	1472 Byte	
Housing		
Material	PPE	
Mounting	Profile rail 35 mm	
Mechanical data		
Dimensions (WxHxD)	131.5 mm x 109 mm x 83 mm	
Weight	306 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL508 certification	in preparation	