SIEMENS

Data sheet

6AG1515-2RN03-7AB0



SIPLUS S7-1500 CPU 1515R-2 PN based on 6ES7515-2RN03-0AB0 with conformal coating -40...+70 °C . central processing unit with work memory 1 MB for program and 4.5 MB for data, 1st interface: PROFINET RT with 2-port switch, 2nd interface: PROFINET, SIMATIC Memory Card required

Figure similar

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General information	
Product type designation	CPU 1515R-2 PN
Firmware version	
FW update possible	Yes
based on	6ES7515-2RN03-0AB0
Product function	
● I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275
Display	
Screen diagonal [cm]	6.1 cm
Control elements	
Number of keys	8
Mode buttons	2
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	0.83 A
Current consumption, max.	0.88 A
Inrush current, max.	1.15 A
l²t	0.6 A ² ·s
Power loss	
Power loss, typ.	7.9 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
integrated (for program)	1 Mbyte
integrated (for data)	4.5 Mbyte
Load memory	
 Plug-in (SIMATIC Memory Card), max. 	32 Gbyte
Backup	

maintenance-free	Yes
CPU processing times	160
for bit operations, typ.	20 ns
for word operations, typ.	24 ns
for fixed point arithmetic, typ.	32 ns
for floating point arithmetic, typ.	128 ns
CPU-blocks	120 115
	9 000: Placks (OR ER EC DR) and URTs
Number of elements (total)	8 000; Blocks (OB, FB, FC, DB) and UDTs
DB	Always and a FO 000
Number range Gira, may	Number range: 1 to 59 999
• Size, max.	4.5 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB
FB	0 05 505
Number range	0 65 535
• Size, max.	1 Mbyte
FC	0 05 505
Number range	0 65 535
• Size, max.	1 Mbyte
OB	4 Mbs de
Size, max. Number of free guele ORs.	1 Mbyte
Number of free cycle OBs Number of time clare OBs	100
Number of time alarm OBs	20
Number of delay alarm OBs	20
Number of cyclic interrupt OBs	20; with minimum OB 3x cycle of 10 ms
Number of process alarm OBs	50
Number of DPV1 alarm OBs	3
Number of startup OBs	100
Number of asynchronous error OBs	4
Number of synchronous error OBs	2
Number of diagnostic alarm OBs	1
Nesting depth	
per priority class	24
Counters, timers and their retentivity	
S7 counter	
S7 counter • Number	2 048
S7 counter • Number Retentivity	
S7 counter • Number Retentivity — adjustable	2 048 Yes
S7 counter • Number Retentivity — adjustable IEC counter	Yes
S7 counter • Number Retentivity — adjustable IEC counter • Number	
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity	Yes Any (only limited by the main memory)
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable	Yes
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times	Yes Any (only limited by the main memory) Yes
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number	Yes Any (only limited by the main memory)
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity	Yes Any (only limited by the main memory) Yes 2 048
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity — adjustable	Yes Any (only limited by the main memory) Yes
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity — adjustable IEC timer	Yes Any (only limited by the main memory) Yes 2 048 Yes
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number	Yes Any (only limited by the main memory) Yes 2 048
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity — adjustable IEC timer • Number Retentivity Retentivity — Retentivity — Retentivity — Retentivity — Retentivity — Retentivity	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory)
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity — adjustable IEC timer • Number Retentivity — adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Data areas and their retentivity	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes
S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times • Number Retentivity — adjustable IEC timer • Number Retentivity — adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory)
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Data areas and their retentivity	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs,
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs,
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S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Setentivity — adjustable IEC timer Setentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB
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S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Sumber Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks Retentivity adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Stentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset Local data	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes No
S7 counter ● Number Retentivity — adjustable IEC counter ● Number Retentivity — adjustable S7 times ● Number Retentivity — adjustable IEC timer ● Number Retentivity — adjustable IEC timer ● Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag ● Size, max. ● Number of clock memories Data blocks ● Retentivity adjustable ● Retentivity preset Local data ● per priority class, max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 512 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte Yes No

I/O address area	
I/O address area	32 khyta: All inpute are in the process image.
InputsOutputs	32 kbyte; All inputs are in the process image 32 kbyte; All outputs are in the process image
	52 kbyte, All outputs are in the process image
per integrated IO subsystem	0 khyta
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	32
Number of subprocess images, max.	32
Hardware configuration	
Number of distributed IO systems	1
Number of IO Controllers	
• integrated	1
Rack	
Modules per rack, max.	1; CPU
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	
Number	16
Clock synchronization	
supported	Yes
 on Ethernet via NTP 	Yes
Interfaces	
Number of PROFINET interfaces	2
1. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X1
Number of ports	2
integrated switch	Yes
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	No
SIMATIC communication	Yes; Only Server
Open IE communication	Yes
Web server	No
Media redundancy	Yes
PROFINET IO Controller	
Services	
— PG/OP communication	Yes
Isochronous mode	No
— ISOCITORIOUS Mode — IRT	No
— IKI — PROFlenergy	Yes
	res 64
Number of connectable IO Devices, max. Underling times.	
— Updating times	The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data
Update time for RT	
— for send cycle of 1 ms	1 ms to 512 ms
2. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X2
Number of ports	1
integrated switch	No
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	No
2 I NOT THE LIG CONTROLL	
PROFINET IO Device	No
PROFINET IO DeviceSIMATIC communication	No Yes; Only Server

Open IE communication	Yes
Web server	No
Media redundancy	No
Interface types	INO
RJ 45 (Ethernet)	
	Yes
• 100 Mbps	Yes
AutonegotiationAutocrossing	Yes
Industrial Ethernet status LED	Yes
Protocols	res
PROFIsafe	No
Number of connections	INO
Number of connections, max.	128
Number of connections, max. Number of connections reserved for ES/HMI/web	10
Number of S7 routing paths	16
Redundancy mode	10
PROFINET system redundancy (S2)	Yes
PROFINET system redundancy (R1) Modia redundancy	No
Media redundancy	Voc. MPD Automanager according to IEC 62420 2 Edition 2.0
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0
MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0
— MRPD	No
— Switchover time on line break, typ.	200 ms; PROFINET MRP
— Number of stations in the ring, max.	50; Only 16 are recommended, however
SIMATIC communication	V
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
• S7 routing	Yes
S7 communication, as server	Yes
S7 communication, as client	No
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
 several passive connections per port, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— UDP multicast	Yes; max. 118 multicast circuits
• DHCP	No
• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Web server	
• HTTP	No
• HTTPS	No
OPC UA	
OPC UA Client	No
OPC UA Server	No
Further protocols	
• MODBUS	Yes; MODBUS TCP
S7 message functions	
Number of login stations for message functions, max.	64
Program alarms	Yes
Number of configurable program messages, max.	10 000; Program messages are generated by the "Program_Alarm" block,
	ProDiag or GRAPH
Number of loadable program messages in RUN, max.	5 000
Number of simultaneously active program alarms	
 Number of program alarms 	1 000
 Number of alarms for system diagnostics 	200
Test commissioning functions	

Joint commission (Toom Trainsering)	No
Joint commission (Team Engineering)	No
Status block	Yes; up to 8 simultaneously
Single step	No
Number of breakpoints	8; Breakpoints are only supported in RUN-Solo status
Status/control	V
Status/control variable	Yes
• Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.	
— of which status variables, max.	200; per job
— of which control variables, max.	200; per job
Forcing	
• Forcing	Yes
• Forcing, variables	Peripheral inputs/outputs
Number of variables, max.	200
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	3 200
— of which powerfail-proof	500
Traces	
Number of configurable Traces	4
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Connection display LINK TX/RX	Yes
Supported technology objects	
Motion Control	No
Controller	
PID_Compact	Yes; Universal PID controller with integrated optimization
PID_3Step	Yes; PID controller with integrated optimization for valves
PID-Temp	Yes; PID controller with integrated optimization for temperature
Counting and measuring	Yes
High-speed counter	No
Standards, approvals, certificates	
Ecological footprint	
 environmental product declaration 	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	100 kg
 global warming potential, (during production) [CO2 	25.8 kg
eq]	
 — global warming potential, (during operation) [CO2 eq] 	75.2 kg
— global warming potential, (after end of life cycle)	-0.83 kg
— global warming potential, (after end of the cycle) [CO2 eq]	0.00 kg
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)
horizontal installation, max.	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155); display:
	50 °C, the display is switched off at an operating temperature of typically 50 °C
• vertical installation, min.	-40 °C; = Tmin
 vertical installation, max. 	40 °C; = Tmax; display: 40 °C, at an operating temperature of typically 40 °C,
Ambientaere entre d'action de la company de	the display is switched off
Ambient temperature during storage/transportation	40.00
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Relative humidity	
 With condensation, tested in accordance with IEC 60068- 2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
∠-00, max.	HOHZOHAH IIISTAHAHOH

Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — GRAPH Know-how protection • User program protection/password protection • User program protection/password protection • Copy protection	es; Incl. diesel and oil droplets in the air es; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); lass 3B3 on request es; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity agree 3); * es; Class 3S4 incl. sand, dust, * es; Class 6B2 mold, fungal and dry rot spores (excluding fauna) es; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity agree 3); * es; Class 6S3 incl. sand, dust; * es; Class 6S3 incl. sand, dust; * es; Class 3 (excluding trichlorethylene) es; Level GX group A/B (excluding trichlorethylene; harmful gas oncentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level C3 (salt spray) and level LB3 (oil) The supplied plug covers must remain in place over the unused interfaces uring operation! es; Class 2 for high reliability es; Type 1 protection es; Discoloration of coating possible during service life es; Conformal coating, Class A
Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — GRAPH Know-how protection • User program protection/password protection • User program protection/password protection • Copy protection • Block protection	es; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); lass 3B3 on request es; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity egree 3); * es; Class 3S4 incl. sand, dust, * es; Class 6B2 mold, fungal and dry rot spores (excluding fauna) es; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity egree 3); * es; Class 6S3 incl. sand, dust; * es; Class 6S3 incl. sand, dust; * es; Class 3 (excluding trichlorethylene) es; Level GX group A/B (excluding trichlorethylene; harmful gas oncentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level C3 (salt spray) and level LB3 (oil) The supplied plug covers must remain in place over the unused interfaces uring operation! es; Class 2 for high reliability es; Type 1 protection es; Discoloration of coating possible during service life es; Conformal coating, Class A
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— LAD Y — FBD Y — STL Y — SCL Y — GRAPH Y Know-how protection ■ User program protection/password protection ■ Copy protection ■ Block protection Y	es
— FBD Y — STL Y — SCL Y — GRAPH Y Know-how protection V • User program protection/password protection Y • Copy protection N • Block protection Y	es
— STL Y — SCL Y — GRAPH Y Know-how protection V • User program protection/password protection Y • Copy protection N • Block protection Y	
- SCL Y - GRAPH Y Know-how protection • User program protection/password protection Y - Copy protection N - Block protection Y	es
— GRAPH Y Know-how protection • User program protection/password protection Y • Copy protection N • Block protection Y	es
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	o min 47 mm
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·	4.5 HIIII
Veights Weight, approx. 55	
last modified:	

