## SIEMENS

## Data sheet

## 6ES7515-2RN03-0AB0



SIMATIC S7-1500R, CPU 1515R-2 PN 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

General information	
Product type designation	CPU 1515R-2 PN
HW functional status	FS04
Firmware version	V3.1
FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
• SysLog	Yes
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V19 (FW V3.1) / V18 (FW V3.0); with older TIA Portal versions configurable as $6\text{ES7515-}2\text{RM00-}0\text{AB0}$
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	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	0.65 A
Current consumption, max.	0.88 A
Inrush current, max.	1.15 A
l²t	0.6 A <sup>2</sup> ·s
Power	
Infeed power to the backplane bus	12 W
Power consumption from the backplane bus (balanced)	6.2 W
Power loss	
Power loss, typ.	3.6 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 Mbuto
integrated (for data)	4.5 Mbyte
Load memory	
Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	Mar.
maintenance-free	Yes
CPU processing times	00 m
for bit operations, typ.	20 ns
for word operations, typ.	24 ns
for fixed point arithmetic, typ.	32 ns
for floating point arithmetic, typ. CPU-blocks	128 ns
	9 000: Pleate (OD, ED, EC, DD) and UDTa
Number of elements (total)	8 000; Blocks (OB, FB, FC, DB) and UDTs
DB	Number represe 1 to 50,000
Number range	Number range: 1 to 59 999
• Size, max. FB	4.5 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB
	0 65 535
Number range	
• Size, max. FC	1 Mbyte
Number range	0 65 535
Size, max.	1 Mbyte
• Size, max. OB	
• Size, max.	1 Mbyte
Number of free cycle 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	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
S7 times	
Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; Available retentive memory for bit memories, timers, counters, DBs,
	and technology data (axes): 472 KB
Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
Retentivity adjustable	Yes
Retentivity preset	No

Local data	
per priority class, max.	64 kbyte; max. 16 KB per block
Address area	
Number of IO modules	4 096; max. number of modules / submodules
I/O address area	
Inputs	32 kbyte; All inputs are in the process image
Outputs	32 kbyte; All outputs are in the process image
per integrated IO subsystem	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	0 KDyte
	31
Number of subprocess images, max.	31
Hardware configuration	
Number of distributed IO systems	16; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET, but also by the connection of I/O via IE/PB- Links.
Number of IO Controllers	
• integrated	1
Rack	
<ul> <li>Modules per rack, max.</li> </ul>	5; CPU + 2 PS + 2 CP
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
<ul> <li>Deviation per day, max.</li> </ul>	10 s; Typ.: 2 s
Operating hours counter	
Number	16
Clock synchronization	
supported	Yes
on Ethernet via NTP Interfaces	Yes
	2
Number of PROFINET interfaces	2
1. Interface	
Interface types	
• RJ 45 (Ethernet)	Yes; X1
<ul><li> RJ 45 (Ethernet)</li><li> Number of ports</li></ul>	Yes; X1 2
<ul><li>RJ 45 (Ethernet)</li><li>Number of ports</li><li>integrated switch</li></ul>	
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RJ 45 (Ethernet)     Number of ports     integrated switch Protocols	2 Yes
RJ 45 (Ethernet)     Number of ports     integrated switch  Protocols     IP protocol	2 Yes Yes; IPv4
RJ 45 (Ethernet)     Number of ports     integrated switch  Protocols      IP protocol      PROFINET IO Controller	2 Yes Yes; IPv4 Yes
RJ 45 (Ethernet)     Number of ports     integrated switch  Protocols      IP protocol      PROFINET IO Controller      PROFINET IO Device	2 Yes Yes; IPv4 Yes No
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<ul> <li>RJ 45 (Ethernet)</li> <li>Number of ports</li> <li>integrated switch</li> </ul> Protocols <ul> <li>IP protocol</li> <li>PROFINET IO Controller</li> <li>PROFINET IO Device</li> <li>SIMATIC communication</li> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Services</li> <ul> <li>Isochronous mode</li> <li>IRT</li> <li>PROFIenergy</li> <li>Number of connectable IO Devices, max.</li> <li>Updating times</li> </ul> — PROFINET Security Class Update time for RT <ul> <li>for send cycle of 1 ms</li> </ul> 2. Interface Interface types</ul>	2         Yes         Yes; IPv4         Yes; No         Yes; Only Server         Yes; Optionally also encrypted         Yes         Yes; per user program         64         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         1         1 ms to 512 ms

Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	No
PROFINET IO Device     SIMATIC communication	No Vasi Oply Sagrar
SIMATIC communication	Yes; Only Server
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	No
Interface types	
RJ 45 (Ethernet)	V
• 100 Mbps	Yes
Autonegotiation	Yes
Autocrossing	Yes
Industrial Ethernet status LED	Yes
Protocols	
PROFIsafe	No
Number of connections	
Number of connections, max.	256; via integrated interfaces of the CPU and connected CPs
<ul> <li>Number of connections reserved for ES/HMI/web</li> </ul>	10
<ul> <li>Number of connections via integrated interfaces</li> </ul>	128
Number of S7 routing paths	16
Redundancy mode	
<ul> <li>PROFINET system redundancy (S2)</li> </ul>	Yes
<ul> <li>PROFINET system redundancy (R1)</li> </ul>	No
Media redundancy	
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0
<ul> <li>MRP interconnection, supported</li> </ul>	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0
— MRPD	No
<ul> <li>— Switchover time on line break, typ.</li> </ul>	200 ms; PROFINET MRP
<ul> <li>— Number of stations in the ring, max.</li> </ul>	50; Only 16 are recommended, however
SIMATIC communication	
<ul> <li>PG/OP communication</li> </ul>	Yes; encryption with TLS V1.3 pre-selected
S7 routing	Yes
<ul> <li>S7 communication, as server</li> </ul>	Yes
<ul> <li>S7 communication, as client</li> </ul>	No
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
<ul> <li>— several passive connections per port, supported</li> </ul>	Yes
<ul> <li>ISO-on-TCP (RFC1006)</li> </ul>	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
Encryption	Yes; Optional
Web server	
• HTTP	No
• HTTPS	Yes; only via Web API
• web API	Yes
— Number of sessions, max.	100
- number of simultaneous HTTP calls, max.	4
— HTTP request body, max.	131 072 byte
OPC UA	
Runtime license required	Yes; "Medium" license required per CPU
OPC UA Client	No
OPC UA Server	Yes; Data access (read, write, subscribe), method call, custom address space

Application authentication	Yes
— Application authentication	
— Security policies	available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
— User authentication	"anonymous" or by user name & password
— GDS support (certificate management)	No
— Number of sessions, max.	24
<ul> <li>— Number of subscriptions per session, max.</li> </ul>	25
— Sampling interval, min.	250 ms
— Publishing interval, min.	250 ms
<ul> <li>Number of server methods, max.</li> </ul>	50
<ul> <li>— Number of inputs/outputs per server method, max.</li> </ul>	20
<ul> <li>— Number of monitored items, recommended max.</li> </ul>	2 000; for 1 s sampling interval and 1 s send interval
— Number of server interfaces, max.	10 of each "Server interfaces" / "Companion specification" type and 20 of the type "Reference namespace"
<ul> <li>Number of nodes for user-defined server interfaces,</li> </ul>	30 000
max.	
<ul> <li>Alarms and Conditions</li> </ul>	No
Further protocols	
MODBUS	Yes; MODBUS TCP
S7 message functions	
Number of login stations for message functions, max.	64
number of subscriptions, max.	500
number of tags/attributes for subscriptions, max.	8 000
Program alarms	Yes
Number of configurable program messages, max.	10 000; Program messages are generated by the "Program_Alarm" block,
ramon or configurable program messages, max.	ProDiag or GRAPH
Number of loadable program messages in RUN, max.	10 000
Number of simultaneously active program alarms	
Number of program alarms	1 000
Number of alarms for system diagnostics	200
Test commissioning functions	200
	No
Joint commission (Team Engineering)	
Status block	Yes; up to 8 simultaneously
Single step	No
Number of breakpoints	8; Breakpoints are only supported in RUN-Solo status
Status/control	
<ul> <li>Status/control variable</li> </ul>	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
<ul> <li>Number of variables, max.</li> </ul>	
<ul> <li>— of which status variables, max.</li> </ul>	200; per job
<ul> <li>— of which control variables, max.</li> </ul>	200; per job
Forcing	
Forcing	Yes
<ul> <li>Forcing, variables</li> </ul>	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
STOP ACTIVE LED	Yes
<ul> <li>Connection display LINK TX/RX</li> </ul>	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
Ambient conditions	
Ambient temperature during operation	
· · · · · · · · · · · · · · · · · · ·	20 °C: No condensation
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> </ul>	-30 °C; No condensation
	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
• vertical installation, min.	-30 °C; No condensation
<ul> <li>vertical installation, max.</li> </ul>	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
Copy protection	No
Block protection	Yes
Access protection	
<ul> <li>protection of confidential configuration data</li> </ul>	Yes
<ul> <li>Password for display</li> </ul>	Yes
<ul> <li>Protection level: Write protection</li> </ul>	Yes
<ul> <li>Protection level: Read/write protection</li> </ul>	Yes
<ul> <li>Protection level: Write protection for Failsafe</li> </ul>	No
<ul> <li>Protection level: Complete protection</li> </ul>	Yes
User administration	Yes
programming / cycle time monitoring / header	
lower limit	adjustable minimum cycle time
● upper limit	adjustable maximum cycle time
Dimensions	
Width	70 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	456 g
last modified	7/12/2024

last modified:

7/13/2024 🖸