SIEMENS

Data sheet

6ES7515-2AN03-0AB0



SIMATIC S7-1500, CPU 1515-2 PN, central processing unit with work memory 1 MB for program and 4.5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 6 ns bit performance, SIMATIC Memory Card required - - approvals and certificates according to entry 109817466 at support.industry.siemens.com to be considered! - -

Center Information Product type designation CPU 1515-2 PN HW functional status FS04 • FW update possible Yes Product type designation Yes Product function Yes • Isochronous mode Yes • Isochronous mode Yes • SysLog Yes Engineering with Yes • STEP 7 TIA Portal configurable/integrated from version V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Configuration control versions as 6ES7515-2AM02-0AB0 Control elements Yes Number of keys 8 Mode buttons 2 Supply voltage 2 Rated value (DC) 192 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Mains buffering 5 ms • Repeat rate, min. 1/s Input consumption (rated value) 0.65 A Current consumption (max. 1.03 A Inrush current, max. 1.15 A; Rated value <tr< th=""><th></th><th></th></tr<>		
HW functional status FS04 Firmware version V4.0 • FW update possible Yes Product function Yes; I&M0 to I&M3 • I &M data Yes; IbM0 to I&M3 • I sochronous mode Yes; Distributed and central; with minimum OB 6x cycle of 375 µs (distributed) and 1 ms (central) • SysLog Yes Engineering with V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Configuration control V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Configuration control V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Configuration control V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Configuration control V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 Control elements Number of keys Number of keys 8 Reted value (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Mains buffering 5 ms <th>General information</th> <th></th>	General information	
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Reverse polarity protection Yes Mains buffering 5 ms • Mains/voltage failure stored energy time 5 ms • Repeat rate, min. 1/s Input current 0.65 A Current consumption (rated value) 0.65 A Current consumption, max. 1.03 A Inrush current, max. 1.15 A; Rated value I ² t 0.6 A ² ·s Power 12 W Power consumption from the backplane bus (balanced) 6.2 W	permissible range, lower limit (DC)	19.2 V
Mains buffering • Mains/voltage failure stored energy time 5 ms • Repeat rate, min. 1/s Input current 0.65 A Current consumption (rated value) 0.65 A Current consumption, max. 1.03 A Inrush current, max. 1.15 A; Rated value I²t 0.6 A²-s Power 12 W Power consumption from the backplane bus (balanced) 6.2 W	permissible range, upper limit (DC)	28.8 V
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Current consumption, max. 1.03 A Inrush current, max. 1.15 A; Rated value I²t 0.6 A²·s Power Infeed power to the backplane bus Infeed power to the backplane bus (balanced) 12 W Power consumption from the backplane bus (balanced) 6.2 W	Input current	
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I ² t 0.6 A ² ·s Power Infeed power to the backplane bus Infeed power consumption from the backplane bus (balanced) 12 W 6.2 W	Current consumption, max.	1.03 A
Power 12 W Infeed power to the backplane bus 12 W Power consumption from the backplane bus (balanced) 6.2 W	Inrush current, max.	1.15 A; Rated value
Infeed power to the backplane bus 12 W Power consumption from the backplane bus (balanced) 6.2 W	l²t	0.6 A ² ·s
Power consumption from the backplane bus (balanced) 6.2 W	Power	
	Infeed power to the backplane bus	12 W
	Power consumption from the backplane bus (balanced)	6.2 W
	Power loss	

Power loss two	2.6 \\/
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 Mbyte
Load memory	
 Plug-in (SIMATIC Memory Card), max. 	32 Gbyte
Backup	
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	6 ns
for word operations, typ.	7 ns
for fixed point arithmetic, typ.	9 ns
for floating point arithmetic, typ.	37 ns
CPU-blocks	
Number of elements (total)	8 000; Blocks (OB, FB, FC, DB) and UDTs
DB	
Number range	1 60 999; subdivided into: number range that can be used by the user: 1
	59 999, and number range of DBs created via SFC 86: 60 000 60 999
• Size, max.	4.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
Number range	0 65 535
• Size, max.	1 Mbyte
FC	
Number range	0 65 535
• Size, max.	1 Mbyte
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 250 µs
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	2
 Number of technology synchronous alarm OBs 	2
 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	2010
— adjustable	Yes
IEC timer	100
	Any (only limited by the main memory)
Number Potoptivity	Any (only limited by the main memory)
Retentivity	Voc
— adjustable	Yes

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; In total; available retentive memory for bit memories, timers,
Extended retentive data area (incl. timera acustora flace)	counters, DBs, and technology data (axes): 472 KB
Extended retentive data area (incl. timers, counters, flags), max	4.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF
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	8 192; 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
per CM/CP	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	
Number of subprocess images, max.	32
Hardware configuration	
Number of distributed IO systems	64: A distributed 1/O system is characterized not only by the integration of
Number of distributed to systems	64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link)
Number of DP masters	
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Number of IO Controllers	
integrated	2
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be
	inserted in total
Rack	
 Modules per rack, max. 	32; CPU + 31 modules
 Number of lines, max. 	1
PtP CM	
Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
• Туре	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
• to DP, master	Yes; via PROFIBUS CM / CP
• on DP, device	Yes; via PROFIBUS CM / CP
• in AS, master	Yes
• in AS, device	Yes
on Ethernet via NTP	Yes
nterfaces	
Number of PROFINET interfaces	2
I. Interface	
Interface types	
Interface types • RJ 45 (Ethernet)	Yes; X1

 integrated switch 	Yes		
Protocols			
IP protocol	Yes; IPv4		
PROFINET IO Controller	Yes		
PROFINET IO Device	Yes		
SIMATIC communication	Yes		
Open IE communication	Yes; Optionally also encrypted		
Web server	Yes		
Media redundancy	Yes		
PROFINET IO Controller			
Services			
— Isochronous mode	Yes		
— Direct data exchange — IRT	Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes		
— PROFlenergy			
— Prioritized startup	Yes; per user program		
	Yes; Max. 32 PROFINET devices		
- Number of connectable IO Devices, max.	256; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET		
— Of which IO devices with IRT, max.	64		
 Number of connectable IO Devices for RT, max. 	256		
— of which in line, max.	256		
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8; in total across all interfaces		
 Number of IO Devices per tool, max. 	8		
— 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		
— PROFINET Security Class	1		
Update time for IRT			
— for send cycle of 250 μs	250 μ s to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 375 μ s of the isochronous OB is decisive		
— for send cycle of 500 μs	500 µs to 8 ms		
— for send cycle of 1 ms	1 ms to 16 ms		
- for send cycle of 2 ms	2 ms to 32 ms		
— for send cycle of 4 ms	4 ms to 64 ms		
— With IRT and parameterization of "odd" send cycles	Update time = set "odd" send clock (any multiple of 125 $\mu s:$ 375 $\mu s,$ 625 μs 3 875 $\mu s)$		
Update time for RT			
— for send cycle of 250 µs	250 µs to 128 ms		
— for send cycle of 500 μs	500 µs to 256 ms		
— for send cycle of 1 ms	1 ms to 512 ms		
— for send cycle of 2 ms	2 ms to 512 ms		
— for send cycle of 4 ms	4 ms to 512 ms		
PROFINET IO Device			
Services			
— Isochronous mode	No		
— IRT	Yes		
- PROFlenergy	Yes; per user program		
— Shared device	Yes		
- Number of IO Controllers with shared device, max.	4		
- activation/deactivation of I-devices	Yes; per user program		
— Asset management record	Yes; per user program		
— PROFINET Security Class	SNMP Configuration and DCP Read Only		
2. Interface			
Interface types			
RJ 45 (Ethernet)	Yes; X2		
Number of ports	1		
integrated switch	No		
Protocols			
IP protocol	Yes; IPv4		
PROFINET IO Controller	Yes		
PROFINET IO Device	Yes		

	N			
SIMATIC communication	Yes			
Open IE communication	Yes; Optionally also encrypted			
Web server	Yes			
Media redundancy	No			
PROFINET IO Controller				
Services				
— Isochronous mode	No			
— Direct data exchange	No			
— IRT	No			
— PROFlenergy	Yes; per user program			
— Prioritized startup	No			
— Number of connectable IO Devices, max.	32; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET			
 — Number of connectable IO Devices for RT, max. 	32			
— of which in line, max.	32			
 — Number of IO Devices that can be simultaneously activated/deactivated, max. 	8; in total across all interfaces			
- Number of IO Devices per tool, max.	8			
— 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			
- PROFINET Security Class	1			
Update time for RT				
— for send cycle of 1 ms	1 ms to 512 ms			
PROFINET IO Device				
Services				
— Isochronous mode	No			
— IRT	No			
— PROFlenergy	Yes; per user program			
— Prioritized startup	No			
— Shared device	Yes			
— Number of IO Controllers with shared device, max.	4			
- activation/deactivation of I-devices	Yes; per user program			
— Asset management record	Yes; per user program			
— PROFINET Security Class	SNMP Configuration and DCP Read Only			
Interface types				
RJ 45 (Ethernet)				
	Yes			
100 Mbps 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 / CMs			
 Number of connections reserved for ES/HMI/web 	10			
 Number of connections via integrated interfaces 	128			
 Number of S7 routing paths 	16			
Redundancy mode				
H-Sync forwarding	Yes			
Media redundancy				
— Media redundancy	only via 1st interface (X1)			
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager; MRP Client			
- MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0			
- MRPD	Yes; Requirement: IRT			
— Switchover time on line break, typ.	200 ms; For MRP, bumpless for MRPD			
— Number of stations in the ring, max.	50			
SIMATIC communication				
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected			
S7 routing	Yes			
Data record routing	Yes			
· Data roota roating				

 S7 communication, as server 	Yes
S7 communication, as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
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	Yes
• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Encryption	Yes; Optional
Web server	
• HTTP	Yes; Standard and user pages
• HTTPS	Yes; Standard and user pages
• web API	400
— Number of sessions, max.	100
— number of simultaneous HTTP calls, max.	4 121.072 bits
— HTTP request body, max. OPC UA	131 072 byte
Runtime license required	Yes; "Medium" license required
OPC UA Client	Yes; Data Access (registered Read/Write), Method Call
Application authentication	Yes
— Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15,
	Basic256Sha256
— User authentication	"anonymous" or by user name & password
 Number of connections, max. 	10
 — Number of nodes of the client interfaces, recommended max. 	2 000
 — Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/OPC_I max. 	300
 — Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. 	20
 — Number of elements for one call of OPC_UA_MethodGetHandleList, max. 	100
 — Number of simultaneous calls of the client instructions for session management, per connection, max. 	1
 — Number of simultaneous calls of the client instructions for data access, per connection, max. 	5
 — Number of registerable nodes, max. 	5 000
 — Number of registerable method calls of OPC_UA_MethodCall, max. 	100
 — Number of inputs/outputs when calling OPC_UA_MethodCall, max. 	20
OPC UA Server	Yes; data access (read, write, subscribe), method call, alarms & condition (A&C), custom address space, role-based access control
 Application authentication 	Yes
— Security policies	available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
— User authentication	"anonymous" or by user name & password
— GDS support (certificate management)	Yes
- Number of sessions, max.	48
 Number of accessible variables, max. 	100 000
— Number of registerable nodes, max.	20 000
 Number of subscriptions per session, max. Sampling interval min 	50 100 ms
— Sampling interval, min.	100 ms
 Publishing interval, min. 	100 ms

— Number of server methods, max.	50; max. 20 concurrently running jobs each for asynchronous instructions OPC_UA_ServerMethodPre and OPC_UA_ServerMethodPost
- Number of inputs/outputs per server method, max.	
 Number of monitored items, recommended max. 	
	4 000; 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"
 Number of nodes for user-defined server interfaces, 	30 000
max.	
 Alarms and Conditions 	Yes
 — Number of program alarms 	200
 Number of alarms for system diagnostics 	100
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,
Number of leadable program messages in DUNL man	ProDiag or GRAPH
Number of loadable program messages in RUN, max.	10 000
Number of simultaneously active program alarms	4 000
Number of program alarms	1 000
Number of alarms for system diagnostics	200
Number of alarms for motion technology objects	160
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 8 engineering systems
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
Single step	No
Number of breakpoints	8
Profiling	Yes
Status/control	
 Status/control variable 	Yes
 Variables 	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
• valiables	
Number of variables, max.	
	200; per job
Number of variables, max.	
 Number of variables, max. — of which status variables, max. 	200; per job
 Number of variables, max. — of which status variables, max. — of which control variables, max. 	200; per job
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 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing 	200; per job 200; per job Yes
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 Number of variables, max. of which status variables, max. of which control variables, max. of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. of which powerfail-proof Traces Number of configurable Traces Memory size per trace, max. Interrupts/diagnostics/status information Diagnostics indication LED RUN/STOP LED ERROR LED 	200; per job 200; per job Yes Peripheral inputs/outputs 200 Yes 3 200 500 4 4 512 kbyte Yes Yes
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— per positioning axis	80
— per synchronous axis	160
— per external encoder	80
— per output cam	20
— per cam track	160
— per probe	40
Positioning axis	
— Number of positioning axes at motion control cycle	11
of 4 ms (typical value)	
 Number of positioning axes at motion control cycle 	20
of 8 ms (typical value)	
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	
High-speed counter	Yes
Standards, approvals, certificates	
Siemens Eco Profile (SEP)	Siemens EcoTech
Ecological footprint	
environmental product declaration	Yes
·	
Global warming potential	100 kg
— global warming potential, (total) [CO2 eq]	100 kg
 — global warming potential, (during production) [CO2 eq] 	25.8 kg
— global warming potential, (during operation) [CO2	75.2 kg
eq]	10.2 kg
— global warming potential, (after end of life cycle)	-0.83 kg
[CO2 eq]	, , , , , , , , , , , , , , , , , , ,
product functions / security / header	
PROFINET Security Class	1
signed firmware update	Yes
Secure Boot	Yes
safely removing data	Yes
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-30 °C; No condensation
 horizontal installation, max. 	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
 vertical installation, max. 	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	
 Installation altitude above sea level, max. 	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
— SCL — CFC	Yes
— GRAPH	Yes
Know-how protection	
User program protection/password protection	Yes
Copy protection	Yes
Block protection	Yes
Access protection	
 protection of confidential configuration data 	Yes
 protection of confidential configuration data Password for display 	Yes Yes

 Production forcet: Write protection Yes Production fore: Read/write protection Yes Production fore: Complete protection Yes Production fore: Complete protection Yes Production for Falsable No Production for Falsable Productio						
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