SIEMENS

Data sheet

6ES7315-2FJ14-0AB0



SIMATIC S7-300 CPU315F-2 PN/DP, Central processing unit with 512 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

Figure similar

General information			
Product type designation	CPU 315F-2 PN/DP		
HW functional status	01		
Firmware version	V3.2		
Product function			
Isochronous mode	Yes; Via PROFIBUS DP or PROFINET interface		
Engineering with			
 Programming package 	STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4		
Supply voltage			
Rated value (DC)	24 V		
permissible range, lower limit (DC)	20.4 V		
permissible range, upper limit (DC)	28.8 V		
external protection for power supply lines (recommendation)	2 A min.		
Mains buffering			
 Mains/voltage failure stored energy time 	5 ms		
Repeat rate, min.	1 s		
Input current			
Current consumption (rated value)	750 mA		
Current consumption (in no-load operation), typ.	150 mA		
Inrush current, typ.	4 A		
l²t	1 A ² ·s		
Power loss			
Power loss, typ.	4.65 W		
Memory			
Work memory			
• integrated	512 kbyte		
expandable	No		
Load memory			
• Plug-in (MMC)	Yes		
Plug-in (MMC), max.	8 Mbyte		
 Data management on MMC (after last programming), min. 	10 a		
Backup			
• present	Yes; Guaranteed by MMC (maintenance-free)		
without battery	Yes; Program and data		
CPU processing times			
for bit operations, typ.	0.05 μs		
for word operations, typ.	0.09 µs		
for fixed point arithmetic, typ.	0.12 µs		

for floating point arithmetic, typ.	0.45 µs			
CPU-blocks				
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be			
	reduced by the MMC used.			
DB				
Number, max.	1 024; Number range: 1 to 16000			
• Size, max.	64 kbyte			
FB				
Number, max.	1 024; Number range: 0 to 7999			
• Size, max.	64 kbyte			
FC	4004 N. 4. 200			
Number, max.	1 024; Number range: 0 to 7999			
• Size, max.	64 kbyte			
OB	CA librata			
Size, max. Number of free guele ORe	64 kbyte			
Number of free cycle OBs Number of time clare OBs	1; OB 1			
Number of time alarm OBs Number of delay plarm OBs	1; OB 10			
Number of delay alarm OBs Number of evelin interrupt OBs	2; OB 20, 21			
Number of cyclic interrupt OBs Number of process clarm OBs	4; OB 32, 33, 34, 35			
Number of DDV4 clarm OBs	1; OB 40			
Number of DPV1 alarm OBs Number of incohorage and OBs	3; OB 55, 56, 57			
Number of isochronous mode OBs Number of startum OBs	1; OB 61			
Number of startup OBs	1; OB 100			
Number of asynchronous error OBs	6; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO)			
Number of synchronous error OBs	2; OB 121, 122			
Nesting depth	40			
per priority class	16			
additional within an error OB	4			
Counters, timers and their retentivity				
S7 counter	2-2			
Number	256			
Retentivity	V			
— adjustable	Yes			
— preset	Z 0 to Z 7			
Counting range	V			
— adjustable	Yes			
— lower limit	0			
— upper limit	999			
IEC counter	V			
• present	Yes			
• Type	SFB			
• Number	Unlimited (limited only by RAM capacity)			
S7 times	250			
Number Potentivity	256			
Retentivity	Von			
— adjustable	Yes			
mana a t	No not on the site s			
— preset	No retentivity			
Time range				
Time range — lower limit	10 ms			
Time range — lower limit — upper limit				
Time range — lower limit — upper limit IEC timer	10 ms 9 990 s			
Time range — lower limit — upper limit IEC timer • present	10 ms 9 990 s Yes			
Time range — lower limit — upper limit IEC timer • present • Type	10 ms 9 990 s Yes SFB			
Time range — lower limit — upper limit IEC timer • present • Type • Number	10 ms 9 990 s Yes			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity	10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity)			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	10 ms 9 990 s Yes SFB			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag	10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity) 128 kbyte			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Size, max.	10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity) 128 kbyte 2 048 byte			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Size, max. • Retentivity available	10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity) 128 kbyte 2 048 byte Yes; MB 0 to MB 2 047			
Time range — lower limit — upper limit IEC timer • present • Type • Number Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Size, max.	10 ms 9 990 s Yes SFB Unlimited (limited only by RAM capacity) 128 kbyte 2 048 byte			

Data blocks	
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity adjustable Retentivity preset	Yes
Local data	
per priority class, max.	32 768 byte; Max. 2048 bytes per block
Address area	OZ 100 Byto, Max. 2040 Bytos per Blook
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	2 040 byte
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	2 046 Dyte
• Inputs	2 048 byte
•	2 048 byte
Outputs Inputs, adjustable	
	2 048 byte
Outputs, adjustableInputs, default	2 048 byte 128 byte
•	
Outputs, default Subprocess images	128 byte
	1. With DDOFINET IO, the length of the user data is limited to 1600 butes
Number of subprocess images, max. Digital channels	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
-	16 204
Inputs — of which central	16 384 1 024
	16 384
Outputs — of which central	1024
	1 024
Analog channels	4.004
• Inputs	1 024 256
— of which central	
Outputs of which control	1 024
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	4
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	0
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	4
Racks, max. Medules per real, may.	4
Modules per rack, max. Time of day.	8
Time of day	
011-	
Clock	V
Hardware clock (real-time)	Yes
Hardware clock (real-time)retentive and synchronizable	Yes
Hardware clock (real-time)retentive and synchronizableBackup time	Yes 6 wk; At 40 °C ambient temperature
 Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. 	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s
 Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON 	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF
 Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period 	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101)
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range Range of values Granularity	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101)
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Number/Number range Range of values Granularity retentive Clock synchronization	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart
Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number Range of values Granularity retentive	Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h

• on MPI, device	Yes				
• to DP, master	Yes; With DP slave only slave clock				
• on DP, device	Yes				
• in AS, master	Yes				
• in AS, device	Yes				
on Ethernet via NTP	Yes; As client				
Digital inputs					
Number of digital inputs	0				
Digital outputs					
Number of digital outputs	0				
Analog inputs					
Number of analog inputs	0				
Interfaces					
Number of PROFINET interfaces	1				
Number of RS 485 interfaces	1				
Number of RS 422 interfaces	0				
1. Interface					
Interface type	Integrated RS 485 interface				
Isolated	Yes				
Interface types					
• RS 485	Yes				
Output current of the interface, max.	200 mA				
Protocols					
• MPI	Yes				
PROFIBUS DP master	Yes				
PROFIBUS DP device	Yes				
Point-to-point connection	No				
MPI					
Transmission rate, max.	12 Mbit/s				
Services					
— PG/OP communication	Yes				
— Routing	Yes				
 Global data communication 	Yes				
 S7 basic communication 	Yes				
— S7 communication	Yes				
— S7 communication, as client	No; but via CP and loadable FB				
— S7 communication, as server	Yes				
PROFIBUS DP master	40 MI W				
Transmission rate, max.	12 Mbit/s				
max. number of DP devices	124				
Services	V.				
— PG/OP communication	Yes				
— Routing	Yes				
— Global data communication	No Year I bleeke early				
— S7 basic communication	Yes; I blocks only				
— S7 communication	Yes				
— S7 communication, as client	No Voc				
— S7 communication, as server	Yes				
— Equidistance	Yes: OP 61: isophropous mode can only be used alternatively on PPOFIDLIS				
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO				
— SYNC/FREEZE	Yes				
— activation/deactivation of DP devices	Yes				
max. number of DP devices that can be activated/deactivated at the same time	8				
Direct data exchange (slave-to-slave communication)	Yes; as subscriber				
— DPV1	Yes				
Address area	Olduda				
— Inputs, max.	2 kbyte				
— Outputs, max.	2 kbyte				

User data per DP device					
- Outputs, max. 1st interface / PROFIBUS DP device / header Transmission rate, max. automatic baud rate search Address area, max. User data per address area, max. PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication, as client S7 communication, as server 244 byte 12 Mbit/s Yes; only with passive interface Yes; only with passive interface Yes; only with passive interface Yes; only with active interface Yes; Only with active interface No Yes; Connection configured on one side only					
1st interface / PROFIBUS DP device / header Transmission rate, max. automatic baud rate search Address area, max. User data per address area, max. Services PG/OP communication Routing S7 basic communication S7 communication S7 communication, as client S7 communication, as server 12 Mbit/s Yes; only with passive interface Yes; only with active interface No No No Yes; Only with active interface No Yes; Connection configured on one side only					
 Transmission rate, max. automatic baud rate search Address area, max. User data per address area, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server 12 Mbit/s Yes; only with passive interface 32 byte Yes Oly with active interface No No Yes No Yes No Yes S7 communication, as client No Yes; Connection configured on one side only 					
 automatic baud rate search Address area, max. User data per address area, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication, as client — S7 communication, as server Yes; only with passive interface Yes Yes Only with active interface No No Yes Yes Only with active interface No Yes Ye					
 Address area, max. User data per address area, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server Yes; Connection configured on one side only 					
● User data per address area, max. Services - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server 32 byte Yes Yes Yes Yes; Only with active interface No No No S7 communication Yes Yes Yes Yes; Connection configured on one side only	Yes; only with passive interface				
Services - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication, as client - S7 communication, as server Yes; Connection configured on one side only					
 — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client — S7 communication, as server Yes; Connection configured on one side only 					
 Routing Global data communication S7 basic communication No S7 communication S7 communication S7 communication, as client S7 communication, as server Yes; Connection configured on one side only 					
 Global data communication S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server Yes; Connection configured on one side only 	Yes				
 S7 basic communication S7 communication S7 communication, as client S7 communication, as server Yes; Connection configured on one side only 					
 — S7 communication — S7 communication, as client — S7 communication, as server Yes; Connection configured on one side only 					
 S7 communication, as client S7 communication, as server Yes; Connection configured on one side only 					
— S7 communication, as server Yes; Connection configured on one side only					
·					
Direct data exchange (slave-to-slave Yes					
communication)					
— DPV1 No					
Transfer memory					
— Inputs 244 byte					
— Outputs 244 byte					
2. Interface					
Interface type PROFINET					
Isolated Yes					
automatic detection of transmission rate Yes; 10/100 Mbit/s					
Autonegotiation Yes					
Autocrossing Yes					
Change of IP address at runtime, supported Yes					
Interface types					
• RJ 45 (Ethernet) Yes					
• Number of ports 2					
• integrated switch Yes					
Protocols					
• MPI No					
PROFINET IO Controller Yes; Also simultaneously with IO-Device functionality					
PROFINET IO Device Yes; Also simultaneously with IO Controller functionality					
• PROFINET CBA Yes					
PROFIBUS DP master No					
PROFIBUS DP device No					
Open IE communication Yes; Via TCP/IP, ISO on TCP, and UDP					
Web server Web server Yes; only read function					
Web server Yes, only read function Media redundancy Yes					
PROFINET IO Controller					
• Transmission rate, max. 100 Mbit/s					
Services PC/OR communication Vos					
— PG/OP communication Yes					
— Routing Yes	nhor of				
— S7 communication Yes; With loadable FBs, max. configurable connections: 14, max. nur instances: 32					
— Isochronous mode Yes; OB 61; isochronous mode can only be used alternatively on PRODP or PROFINET IO	DEIROS				
— IRT Yes					
— Shared device Yes					
— Prioritized startup Yes					
— Number of IO devices with prioritized startup, max. 32					
— Number of connectable IO Devices, max.					
— Of which IO devices with IRT, max.					
— of which in line, max.					

 Number of connectable IO Devices for RT, max. 	128				
— of which in line, max.	128 Vec				
 Activation/deactivation of IO Devices 	Yes				
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8				
 — IO Devices changing during operation (partner ports), supported 	Yes				
 Number of IO Devices per tool, max. 	8				
 Device replacement without swap medium 	Yes				
— Send cycles	250 μ s, 500 μ s,1 ms; 2 ms, 4 ms (not in the case of IRT with "high flexibility"				
	option)				
— Updating time	$250~\mu s$ to $512~ms$ (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)				
Address area					
— Inputs, max.	2 kbyte				
— Outputs, max.	2 kbyte				
 User data consistency, max. 	1 024 byte				
PROFINET IO Device					
Services					
— PG/OP communication	Yes				
— Routing	Yes				
— S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32				
— Isochronous mode	No				
— IRT	Yes				
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device				
— Shared device	Yes				
 Number of IO Controllers with shared device, max. 	2				
Transfer memory					
— Inputs, max.	1 440 byte; Per IO Controller with shared device				
— Outputs, max.	1 440 byte; Per IO Controller with shared device				
Submodules	1 440 byte, 1 of 10 controller with shared device				
— Number, max.	64				
User data per submodule, max.	1 024 byte				
PROFINET CBA	1 024 byte				
	Von				
 acyclic transmission 	Yes				
cyclic transmission	Yes				
Open IE communication					
Open IE communication • Number of connections, max.	8				
Open IE communication • Number of connections, max. • Local port numbers used at the system end	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532,				
Open IE communication • Number of connections, max. • Local port numbers used at the system end	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535				
Open IE communication • Number of connections, max. • Local port numbers used at the system end • Keep-alive function, supported Protocols	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes				
Open IE communication • Number of connections, max. • Local port numbers used at the system end • Keep-alive function, supported Protocols PROFIsafe	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP 50				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP 50 Yes; via integrated PROFINET interface and loadable FBs				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP 50 Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes Yes Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes 200 ms; PROFINET MRP 50 Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported ISO-on-TCP (RFC1006)	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes Yes Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported ISO-on-TCP (RFC1006) — Number of connections, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes Yes Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 Yes; via integrated PROFINET interface and loadable FBs 8				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connections per port, supported ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes Yes Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte				
Open IE communication Number of connections, max. Local port numbers used at the system end Keep-alive function, supported Protocols PROFIsafe Redundancy mode Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. Data length, max.	8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes Yes Yes Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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User-defined websites	Yes				
Number of HTTP clients	5				
communication functions / header	•				
PG/OP communication	Yes				
Data record routing	Yes				
Global data communication	165				
	Von				
supported Number of CD leans may	Yes				
Number of GD loops, max.Number of GD packets, max.	8 8				
Number of GD packets, max. Number of GD packets, transmitter, max.					
Number of GD packets, transmitter, max. Number of GD packets, receiver, max.	8				
• • • • • • • • • • • • • • • • • • • •	8				
Size of GD packets, max.Size of GD packet (of which consistent), max.	22 byte				
S7 basic communication	22 byte				
• supported	Yes				
User data per job, max.	76 byte				
User data per job (of which consistent), max. User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET				
• Oser data per job (of which consistent), max.	as server)				
S7 communication					
• supported	Yes				
• as server	Yes				
• as client	Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB				
User data per job, max.	See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)				
S5 compatible communication					
• supported	Yes; via CP and loadable FC				
communication functions / PROFINET CBA (with set target commu	nication load) / header				
 Setpoint for the CPU communication load 	50 %				
 Number of remote interconnection partners 	32				
 number of master/device functions 	30				
 total of all master/device connections 	1 000				
 data length of all incoming master/device connections, max. 	4 000 byte				
 data length of all outgoing master/device connections, max. 	4 000 byte				
 Number of device-internal and PROFIBUS interconnections 	500				
 Data length of device-internal und PROFIBUS interconnections, max. 	4 000 byte				
Data length per connection, max.	1 400 byte				
performance data / PROFINET CBA / remote interconnection /	with acyclic transfer / header				
— Sampling interval, min.	500 ms				
 Number of incoming interconnections 	100				
 Number of outgoing interconnections 	100				
 Data length of all incoming interconnections, max. 	2 000 byte				
 Data length of all outgoing interconnections, max. 	2 000 byte				
 Data length per connection, max. 	1 400 byte				
performance data / PROFINET CBA / remote interconnection /	with cyclic transfer / header				
 Transmission frequency: Transmission interval, min. 	10 ms				
 Number of incoming interconnections 	200				
 Number of outgoing interconnections 	200				
 Data length of all incoming interconnections, max. 	2 000 byte				
 Data length of all outgoing interconnections, max. 	2 000 byte				
 Data length per connection, max. 	450 byte				
performance data / PROFINET CBA / HMI variables via PROF	INET / acyclic / header				
 Number of stations that can log on for HMI variables (PN OPC/iMap) 	3; 2x PN OPC/1x iMap				
— HMI variable updating	500 ms				
— Number of HMI variables	200				
— Data length of all HMI variables, max.	2 000 byte				
performance data / PROFINET CBA / PROFIBUS proxy function	onality / header				
— supported	Yes				

- Number of Inited PRCPRIBLS devices 16 240 byte; Slave-dependent 240 byte; Slav	Number of linked DDOFIDITE devices	40				
Overall O						
• usable for PG communication		240 byte, Slave-dependent				
usable for PG communication		16				
reserved for PG communication 1 - adjustable for PG communication, min adjustable for PG communication 15 - usable for PC communication 15 - usable for PC PC communication 15 - reserved for PC pC mommunication 16 - adjustable for PC PC communication 11 - adjustable for PC PC communication 16 - adjustable for PS Desire communication 17 - usable for ST basic communication 17 - adjustable for PS Positic communication 19 - adjustable for PS Communication 19 - adjus						
usable for OP communication	•					
- reserved for OP communication, min adjustable for OP communication, max. • usable for ST basic communication, min reserved for ST basic communication, min adjustable for ST obsic communication, min adjustable for ST communication in the communication in t	-					
adjustable for OP communication, min adjustable for OP communication, max. • usable for S7 basic communication reserved for S7 basic communication in 0 adjustable for S7 basic communication, min adjustable for S7 basic communication, min adjustable for S7 basic communication, min adjustable for S7 communication, min						
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- reserved for S7 basic communication 0	•					
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- adjustable for S7 basic communication, max. • usable for S7 communication - reserved for S7 communication, min. - adjustable for S7 communication, min. - adjustable for S7 communication, min. - adjustable for S7 communication, min. • total number of instances, max. • usable for routing - x1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max 14; X2 as PROFINET; 24 max. 57 mossage functions 87 mossage functions, max. 90 communication 90 communication 16: Depending on the configured connections for PG/OP and S7 basic communication 91 communication 92 mossage functions 81 status brock 92 mossage functions 81 status for functions 81 status functions 91 status functions 92 status functions 91 status functions 92 status functions 92 status functions 92 status functions						
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reserved for S7 communication adjustable for S7 communication, min. adjustable for S7 communication, max. it olan number of instances, max. it olan number of login stations for message functions Number of login stations for message functions, max. Process diagnostic messages is simultaneously active Alarm_S blocks, max. Of variables Number of breakpoints It olan number of breakpoints It olan number of breakpoints It olan number of variables, max. of which status variables, max. of which status variables, max. of which control variables, max. of which control variables, max. of which control variables, max. of which status variables, max. of which status variables, max. of which status variables, max. of which control variables, max. of which control variables, max. of which control variables, max. of which other of variables, max. of which powerfail proof Number of entries, max. adjustable of which powerfail proof Number of entries readable in RUN, max. adjustable of which powerfail proof Number of entries readable in RUN, max. adjustable of which powerfail proof Number of entries readable in RUN, max. adjustable of which powerfail proof Number of entries readable in RUN, max. adjustable of which powerfail proof Number of entries readable in RUN, max. adjustable of which powerfail proof Number of entries readable in RUN, max. of which powerfail proof Number of entries readable in RUN, max. of which powerfail proof Number of entries readable in RUN, max. of which						
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- adjustable for S7 communication, max. • total number of instances, max. • usable for routing X1 as MPE max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max 14; X2 as PROFINET; 24 max. S7 message functions Number of login stations for message functions, max. Process diagnostic messages Process diagnostic messages Yes simultaneously active Alarm, S blocks, max. 16; Depending on the configured connections for PG/OP and S7 basic communication Test commissioning functions Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints Status/control Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. — of which status variables, max. — of which control variables, max. — of which provertial proof • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — or which powerfail-proof • Number of entries readable in RUN, max. — adjustable — or preset • resent • can be read out • Namber of centries readable in RUN, max. — adjustable — or which powerfail-proof • Number of entries readable in RUN, max. — adjustable — or an be read out • Number of entries readable in RUN, max. — adjustable — or an be read out • Number of entries readable in RUN, max. — adjustable — or an be read out • Number of entries readable in RUN, max. — adjustable — or an be read out • Number of entries readable in RUN, max. • on be read out • Number of entries readable in RUN, max. • on be read out • Number of entries readable in RUN, max. • on be read out • Number of entries readable in RUN, max. • on be read out • on be read		0				
• total number of instances, max. • usable for routing • usable for routing • usable for routing • Yt as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max 14; X2 as PROFINET: 24 max. S7 message functions Number of login stations for message functions, max. Process diagnostic messages * Yes simultaneously active Alarm, S blocks, max. 300 Tost commissioning functions Status block Single step * Yes; Up to 2 simultaneously Single step * Yes Number of breakpoints 4 ** Status/control variable • Status/control variable • Variables • Number of variables, max. • of which status variables, max. • of which status variables, max. • of which control variables, max. • Forcing • Forcing • Forcing, variables • Number of variables, max. • Inputs, outputs, unemory bits, DB, times, counters **Outputs** **Pres** **Outputs** **Output	•	0				
Variable for routing X1 as MPI: max, 10: X1 as DP master: max, 24; X1 as DP slave (active): max (4; X2 as PROFINET: 24 max.) Frocess diagnostic message functions, max. Process diagnostic messages simultaneously active Alarm, S blocks, max. Process diagnostic messages Status block Status block Ves; Up to 2 simultaneously Single step Yes Number of breakpoints Status/control variable Number of variables, max. - of which status variables, max. - of which status variables, max. - of which control variables, max. 10 Diagnostic buffer Process Number of variables, max. 10 Diagnostic buffer Present	 adjustable for S7 communication, max. 	14				
The state of the control of the cont	 total number of instances, max. 	32				
S7 message functions	usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max.				
Number of login stations for message functions, max. Process diagnostic messages Yes simultaneously active Alarm_S blocks, max. 300 Test communication Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints 4 Status/control Status/control variable Variables Number of variables, max. Of which status variables, max. Forcing Forcin		14; X2 as PROFINE I: 24 max.				
communication Process diagnostic messages simultaneously active Alarm_S blocks, max. 300 Test commissioning functions Status block Single step Number of breakpoints 4 Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which status variables, max. • Forcing • Forcing, variables • Number of variables, max. 10 Diagnostic buffer • Number of variables, max. — adjustable • Number of variables, max. — of which control variables, max. 10 Diagnostic buffer • Number of variables, max. — adjustable • Number of entries, max. — adjustable • Number of entries readable in RUN, max. — adjustable • can be read out • Yes • presett • can be read out • Yes Ambient conditions Ambient temperature during operation • min. • min.						
Simultaneously active Alarm S blocks, max. 300	Number of login stations for message functions, max.					
Simultaneously active Alarm_S blocks, max. 300	Process diagnostic messages	Yes				
Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints 4 Status/control variable Yes • Variables Inputs, outputs, memory bits, DB, times, counters • Number of variables, max. 30 • of which status variables, max. 30 • of which control variables, max. 30 • Forcing Yes • Forcing Yes • Forcing, variables Inputs, outputs • Number of variables, max. 10 Diagnostic buffer • present Yes • Number of variables, max. 500 — adjustable Number of variable in RUN, max. 499 • Number of entries readable in RUN, max. 499 — adjustable Yes — preset 10 Service data • can be read out Yes Ambient temperature during operation • min. 0 °C • max. 60 °C configuration / broogramming / header		300				
Single step						
Single step		Yes: Up to 2 simultaneously				
Number of breakpoints						
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Diagnostic buffer	-					
present present Number of entries, max. S00 — adjustable — of which powerfail-proof 100 Number of entries readable in RUN, max. — adjustable — adjustable — preset 10 Service data • can be read out Ambient conditions Ambient temperature during operation • min. 0 °C • max. 60 °C Configuration / header Configuration software • STEP 7 Yes; V5.5 or higher configuration / programming / header						
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can be read out Ambient conditions Ambient temperature during operation min. o °C max. 60 °C Configuration / header Configuration software STEP 7 Yes; V5.5 or higher configuration / programming / header		10				
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		0.00				
Configuration / header Configuration software ◆ STEP 7 Yes; V5.5 or higher configuration / programming / header						
Configuration software • STEP 7 Yes; V5.5 or higher configuration / programming / header		60 °C				
STEP 7 Yes; V5.5 or higher configuration / programming / header						
configuration / programming / header	·					
		Yes; V5.5 or higher				
Command set see instruction list						
	Command set	see instruction list				

Nesting levels	8
System functions (SFC)	see instruction list
System function blocks (SFB)	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
 User program protection/password protection 	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	40 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	340 g
Classifications	

	Version	Classification	
eClass	14	27-24-22-07	
eClass	12	27-24-22-07	
eClass	9.1	27-24-22-07	
eClass	9	27-24-22-07	
eClass	8	27-24-22-07	
eClass	7.1	27-24-22-07	
eClass	6	27-24-22-07	
ETIM	9	EC000236	
FTIM	8	FC000236	

Approvals / Certificates

General Product Approval

Manufacturer Declaration







ETIM

IDEA

UNSPSC

Miscellaneous

7

4

15



EC000236

3565

32-15-17-05

EMV

For use in hazardous locations





<u>FM</u>







For use in hazardous locations

Functional Saftey

Marine / Shipping

Miscellaneous

CCC-Ex



Type Examination Certificate





Marine / Shipping





NK / Nippon Kaiji Kyokai





CCS (China Classification Society)

other Industrial Communication

PROFINET
Profibus
Profibus

12/8/2024