SIEMENS

Data sheet



SIPLUS S7-300 CPU 314C-2PN/DP based on 6ES7314-6EH04-0AB0 with conformal coating, -25...+70 °C, compact CPU with 192 KB work memory, 24 DI/16 DQ, 4 AI, 2 AQ, 1 Pt100, 4 high-speed counters (60 kHz), 1st interface MPI/DP 12 Mbps, 2nd interface Ethernet PROFINET, with 2-port switch, integrated power supply 24 V DC, front connector (2x 40-pole) and Micro Memory Card required

Figure similar

General information	
Product type designation	CPU 314C-2 PN/DP
based on	6ES7314-6EH04-0AB0
Product function	
Isochronous mode	Yes; For PROFINET only
Engineering with	
Programming package	STEP 7 V5.5 or higher with HSP 191
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	Miniature circuit breaker, type C; min. 2 A; miniature circuit breaker type B, min. 4 A
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1 s
Load voltage L+	
Digital inputs	
— load voltage / at digital input / at DC / rated value	24 V
 Reverse polarity protection 	Yes
Digital outputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	850 mA
Current consumption (in no-load operation), typ.	190 mA
Inrush current, typ.	5 A
l²t	0.7 A ² ·s
Digital inputs	
 from load voltage L+ (without load), max. 	80 mA
Digital outputs	
 from load voltage L+, max. 	50 mA
Power loss	
Power loss, typ.	14 W
Memory	
Work memory	
• integrated	192 kbyte
• expandable	No
•	140

DI : (MMAC)	V
• 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	100, 1 rogium and data
for bit operations, typ.	0.06 µs
for word operations, typ.	0.12 µs
for fixed point arithmetic, typ.	0.12 µs
for floating point arithmetic, typ.	0.59 µs
CPU-blocks	0.00 μs
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be
Number of blocks (total)	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	
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Number, max.	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
Number of delay alarm OBs	2; OB 20, 21
Number of cyclic interrupt OBs	4; OB 32, 33, 34, 35
Number of process alarm OBs	1; OB 40
Number of DPV1 alarm OBs	3; OB 55, 56, 57
Number of isochronous mode OBs	1; OB 61; only for PROFINET
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	_, =, ==, ==
per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	
• Number	256
Retentivity	
— adjustable	Yes
— aujustable — preset	Z 0 to Z 7
Counting range	
— adjustable	Yes
— aujustable — lower limit	0
— upper limit	999
— upper innit	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	Online (Illine only by ItAIVI capacity)
	256
Number Potentivity	256
Retentivity	Von
— adjustable	Yes
— preset	No retentivity
Time range	40
— lower limit	10 ms

— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	64 kbyte
Flag	
• Size, max.	256 byte
Retentivity available	Yes; MB 0 to MB 255
Retentivity preset	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	2011 1 14 20401 1 11 1
per priority class, max.	32 kbyte; Max. 2048 bytes per block
Address area	
I/O address area	2.049 huto
Inputs Outputs	2 048 byte
Outputs of which distributed	2 048 byte
— Inputs	2 003 byte
— Outputs	2 010 byte
Process image	2 010 byto
• Inputs	2 048 byte
Outputs	2 048 byte
Inputs, adjustable	2 048 byte
Outputs, adjustable	2 048 byte
Inputs, default	256 byte
Outputs, default	256 byte
Default addresses of the integrated channels	
— Digital inputs	136.0 to 138.7
— Digital outputs	136.0 to 137.7
— Analog inputs	800 to 809
— Analog outputs	800 to 803
Subprocess images	
 Number of subprocess images, max. 	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
• Inputs	16 048
— of which central	1 016
Outputs	16 096
— of which central	1 008
Analog channels	1.006
Inputs— of which central	1 006 253
Or which central Outputs	1 007
Outputs — of which central	250
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
• Racks, max.	4
 Modules per rack, max. 	8; In rack 3 max. 7

Time of day	
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s; Typ.: 2 s
Behavior of the clock following POWER-ON	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup period	the clock continues at the time of day it had when power was switched off
Operating hours counter	and disch somming at the time of day kinds much perior had emission on
Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	res, must be restarted at each restart
-	Yes
• supported	
• to MPI, master	Yes
• on MPI, device	Yes With DR clave only clave clark
• 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	24
of which inputs usable for technological functions	16
integrated channels (DI)	24
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	24
— up to 60 °C, max.	12; up to 70 °C
vertical installation	
— up to 40 °C, max.	12
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
Input current	
• for signal "1", typ.	8 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.3 / 3 / 15 ms (You can reconfigure the input delay of the standard inputs during program runtime. Please note that under certain circumstances
5.4.4.4	your newly set filter time may not be effective until the next filter cycle.)
— Rated value	3 ms
for technological functions	
— at "0" to "1", max.	8 µs; Minimum pulse width/minimum pause between pulses at maximum counting frequency
Cable length	
• shielded, max.	1 000 m; 50 m for technological functions
• unshielded, max.	600 m; for technological functions: No
for technological functions	
— shielded, max.	50 m; at maximum count frequency
— unshielded, max.	not allowed
Digital outputs	
	10
Number of digital outputs	16
Number of digital outputs	4; Notice: You cannot connect the fast outputs of your CPU in parallel
Number of digital outputs • of which high-speed outputs	4; Notice: You cannot connect the fast outputs of your CPU in parallel

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Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	EW.
• on lamp load, max.	5 W
Load resistance range	40.0
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	1. (001)
• for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	500 mA
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "1" minimum load current	5 mA
for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes
Switching frequency	400 Us
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	100 Hz
of the pulse outputs, with resistive load, max.	2.5 kHz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A; 1.5 A @ > 60 °C
vertical installation	
— up to 40 °C, max.	2 A
Cable length	4.000
• shielded, max.	1 000 m
unshielded, max. Analag inguta	600 m
Analog inputs	-
Number of analog inputs	5
For voltage/current measurement	4
For resistance/resistance thermometer measurement	1
integrated channels (AI)	5; 4x current/voltage, 1x resistance
permissible input voltage for current input (destruction limit), max.	5 V; Permanent
permissible input voltage for voltage input (destruction limit), max.	30 V; Permanent
permissible input current for voltage input (destruction limit), max.	0.5 mA; Permanent
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max.	50 mA; Permanent
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max.	50 mA; Permanent 400 Hz
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ.	50 mA; Permanent
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max.	50 mA; Permanent 400 Hz
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter,	50 mA; Permanent 400 Hz 3.3 V
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ.	50 mA; Permanent 400 Hz 3.3 V 1.25 mA
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable	50 mA; Permanent 400 Hz 3.3 V 1.25 mA
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges	50 mA; Permanent 400 Hz 3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage	50 mA; Permanent 400 Hz 3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; ±10 V / 100 kΩ; 0 V to 10 V / 100 kΩ
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance	50 mA; Permanent 400 Hz 3.3 V 1.25 mA $\text{Yes; Degrees Celsius / degrees Fahrenheit / Kelvin}$ $\text{Yes; $\pm 10 \text{ V} / 100 \text{ k}\Omega; 0 \text{ V to } 10 \text{ V} / 100 \text{ k}\Omega}$ $\text{Yes; $\pm 20 \text{ mA} / 100 }\Omega; 0 \text{ mA to } 20 \text{ mA} / 100 }\Omega; 4 \text{ mA to } 20 \text{ mA} / 100 }\Omega$
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance Input ranges (rated values), voltages	50 mA; Permanent 400 Hz 3.3 V 1.25 mA $\text{Yes; Degrees Celsius / degrees Fahrenheit / Kelvin}$ $\text{Yes; $\pm 10 \text{ V / } 100 \text{ k}\Omega; 0 \text{ V to } 10 \text{ V / } 100 \text{ k}\Omega}$ $\text{Yes; $\pm 20 \text{ mA / } 100 \Omega; 0 \text{ mA to } 20 \text{ mA / } 100 \Omega; 4 \text{ mA to } 20 \text{ mA / } 100 \Omega}$ $\text{Yes; $\pm 100 \text{ / } 10 \text{ M}\Omega}$
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance	50 mA; Permanent 400 Hz 3.3 V 1.25 mA $\text{Yes; Degrees Celsius / degrees Fahrenheit / Kelvin}$ $\text{Yes; $\pm 10 \text{ V / } 100 \text{ k}\Omega; 0 \text{ V to } 10 \text{ V / } 100 \text{ k}\Omega}$ $\text{Yes; $\pm 20 \text{ mA / } 100 \Omega; 0 \text{ mA to } 20 \text{ mA / } 100 \Omega; 4 \text{ mA to } 20 \text{ mA / } 100 \Omega}$ $\text{Yes; $\pm 100 \text{ / } 10 \text{ M}\Omega$}$
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permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges Voltage Current Resistance thermometer Resistance Input ranges (rated values), voltages 0 to +10 V	50 mA; Permanent 400 Hz 3.3 V 1.25 mA $\text{Yes; Degrees Celsius / degrees Fahrenheit / Kelvin}$ $\text{Yes; $\pm 10 \text{ V} / 100 \text{ k}\Omega; 0 \text{ V to } 10 \text{ V} / 100 \text{ k}\Omega}$ $\text{Yes; $\pm 20 \text{ mA} / 100 \Omega; 0 \text{ mA to } 20 \text{ mA} / 100 \Omega; 4 \text{ mA to } 20 \text{ mA} / 100 \Omega}$ $\text{Yes; Pt } 100 / 10 \text{ M}\Omega$ $\text{Yes; } 0 \Omega \text{ to } 600 \Omega / 10 \text{ M}\Omega$
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges • Voltage • Current • Resistance thermometer • Resistance Input ranges (rated values), voltages • 0 to +10 V — Input resistance (0 to 10 V)	50 mA; Permanent 400 Hz 3.3 V 1.25 mA $\text{Yes; Degrees Celsius / degrees Fahrenheit / Kelvin}$ $\text{Yes; $\pm 10 \text{ V} / 100 \text{ k}\Omega; 0 \text{ V to } 10 \text{ V} / 100 \text{ k}\Omega}$ $\text{Yes; $\pm 20 \text{ mA} / 100 \Omega; 0 \text{ mA to } 20 \text{ mA} / 100 \Omega; 4 \text{ mA to } 20 \text{ mA} / 100 \Omega}$ $\text{Yes; Pt } 100 / 10 \text{ M}\Omega$ $\text{Yes; } 0 \Omega \text{ to } 600 \Omega / 10 \text{ M}\Omega$
permissible input current for voltage input (destruction limit), max. permissible input current for current input (destruction limit), max. Electrical input frequency, max. No-load voltage for resistance-type transmitter, typ. Constant measurement current for resistance-type transmitter, typ. Technical unit for temperature measurement adjustable Input ranges Voltage Current Resistance thermometer Resistance Input ranges (rated values), voltages o to +10 V — Input resistance (0 to 10 V) Input ranges (rated values), currents	50 mA; Permanent 400 Hz 3.3 V 1.25 mA Yes; Degrees Celsius / degrees Fahrenheit / Kelvin Yes; $\pm 10 \text{ V} / 100 \text{ k}\Omega$; 0 V to 10 V / 100 kΩ Yes; $\pm 20 \text{ mA} / 100 \Omega$; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω Yes; Pt 100 / 10 MΩ Yes; 0 Ω to 600 Ω / 10 MΩ Yes 100 kΩ

— Input resistance (-20 mA to +20 mA)	100 Ω
• 4 mA to 20 mA	Yes
— Input resistance (4 mA to 20 mA)	100 Ω
Input ranges (rated values), resistance thermometer	100 12
• Pt 100	Yes
— Input resistance (Pt 100)	10 ΜΩ
Input ranges (rated values), resistors	10 1112
• 0 to 600 ohms	Yes
— Input resistance (0 to 600 ohms)	10 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	No
Characteristic linearization	
parameterizable	Yes; by software
— for resistance thermometer	Pt 100
Cable length	
• shielded, max.	100 m
Analog outputs	
integrated channels (AO)	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	55 mA
Current output, no-load voltage, max.	14 V
Output ranges, voltage	
• 0 to 10 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
 for voltage output two-wire connection 	Yes; Without compensation of the line resistances
 for voltage output four-wire connection 	No
for current output two-wire connection	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	0.1 μF
with current outputs, max.	300 Ω
with current outputs, inductive load, max.	0.1 mH
Destruction limits against externally applied voltages and currents	
 Voltages at the outputs towards MANA 	16 V; Permanent
Current, max.	50 mA; Permanent
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	12 bit
Integration time, parameterizable	Yes; 16.6 / 20 ms
 Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
Time constant of the input filter	0.38 ms
Basic execution time of the module (all channels released)	1 ms
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	12 bit
Conversion time (per channel)	1 ms
Settling time	
for resistive load	0.6 ms
• for capacitive load	1 ms
• for inductive load	0.5 ms

Encoder	
Connection of signal encoders	
for voltage measurement	Yes
for current measurement as 2-wire transducer	Yes; with external supply
for current measurement as 4-wire transducer	Yes
for resistance measurement with two-wire connection	Yes; Without compensation of the line resistances
for resistance measurement with three-wire connection	No
for resistance measurement with four-wire connection	No
Connectable encoders	
2-wire sensor	Yes
permissible quiescent current (2-wire sensor), max.	1.5 mA
Errors/accuracies	
Temperature error (relative to input range), (+/-)	0.006 %/K
Crosstalk between the inputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to input	0.06 %
range), (+/-)	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.1 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to output	0.06 %
range), (+/-)	
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	1.6 %
 Current, relative to input range, (+/-) 	1.6 %
 Resistance, relative to input range, (+/-) 	1.6 %
 Voltage, relative to output range, (+/-) 	1.6 %
Current, relative to output range, (+/-)	1.6 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to input range, (+/-) 	0.8 %; Linearity error ±0.06 %
 Current, relative to input range, (+/-) 	0.8 %; Linearity error ±0.06 %
 Resistance, relative to input range, (+/-) 	0.8 %; Linearity error ±0.2 %
 Resistance thermometer, relative to input range, (+/-) 	0.8 %
 Voltage, relative to output range, (+/-) 	0.8 %
Current, relative to output range, (+/-)	0.8 %
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference	
 Series mode interference (peak value of interference < rated value of input range), min. 	30 dB
Common mode interference, min.	40 dB
Interfaces	40 00
Number of PROFINET interfaces	1: 2 ports (switch) P I/15
Number of RS 485 interfaces	1; 2 ports (switch) RJ45 1; Combined MPI / PROFIBUS DP
Number of RS 422 interfaces	0
Interface	
	Integrated DS 495 interface
Interface type Isolated	Integrated RS 485 interface Yes
Interface types	100
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	200 111/1
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP master PROFIBUS DP device	Yes
Profibus by device Point-to-point connection	No
Point-to-point connection MPI	INV
	12 Mbit/s
Transmission rate, max. Services	12 IVIDIUS
	Vec
— PG/OP communication	Yes Yes
— Routing— Global data communication	Yes
Global data communication S7 basic communication	Yes
— or pasic continuincation	160

— S7 communication Ye — S7 communication, as client No — S7 communication, as server Ye PROFIBUS DP master	es o; but via CP and loadable FB
— S7 communication, as server	o, but via CP and loadable FB
	es
	2 Mbit/s
max. number of DP devices 12	
Services	24
— PG/OP communication	ne .
— Routing	
Global data communication	
	es; I blocks only
— S7 communication Ye	
— S7 communication, as client	
— S7 communication, as server	
— Equidistance	
— Isochronous mode	
— SYNC/FREEZE Ye	
— activation/deactivation of DP devices	
max. number of DP devices that can be activated/deactivated at the same time	
Direct data exchange (slave-to-slave communication) Yes	es; as subscriber
— DPV1 Ye	es
Address area	
— Inputs, max.	kbyte
— Outputs, max.	kbyte
User data per DP device	
·	44 byte
	44 byte
1st interface / PROFIBUS DP device / header	
	2 Mbit/s
	es; only with passive interface
• Address area, max.	
	2 byte
Services	
— PG/OP communication Ye	
-	es; Only with active interface
— Global data communication No	
— S7 basic communication No	
— S7 communication Ye	
— S7 communication, as client	
	es; Connection configured on one side only
Direct data exchange (slave-to-slave Ye communication)	5 5
— DPV1 No	0
Transfer memory	
·	14 byte
— Outputs 24	44 byte
2. Interface	
Interface type PF	ROFINET
Isolated	es
automatic detection of transmission rate	es; 10/100 Mbit/s
Autonegotiation	es
Autocrossing	es
Change of IP address at runtime, supported Ye	es
Interface types	
• RJ 45 (Ethernet)	es
Number of ports	
• integrated switch	es
Protocols	
• MPI No	0
PROFINET IO Controller Yes	es; 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	Yes
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; With loadable FBs, max. configurable connections: 10, max. number of instances: 32
— Isochronous mode	Yes; OB 61
— IRT	Yes
— Shared device	Yes
 Prioritized startup 	Yes
 Number of IO devices with prioritized startup, max. 	32
 Number of connectable IO Devices, max. 	128
— Of which IO devices with IRT, max.	64
— of which in line, max.	64
 Number of IO Devices with IRT and the option "high flexibility" 	128
— of which in line, max.	61
 Number of connectable IO Devices for RT, max. 	128
— of which in line, max.	128
 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	$250~\mu s, 500~\mu s, 1~ms; 2~ms, 4~ms$ (not in the case of IRT with "high flexibility" option)
— Updating time	250 μs 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: 10, 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	
— Number, max.	64
User data per submodule, max.	1 024 byte
PROFINET CBA	, 021 0310
acyclic transmission	Yes
cyclic transmission	Yes
- cyclic transmission	160

Open IE communication	
Open IE communication	0
Number of connections, max. Level part numbers used at the system and	8
Local port numbers used at the system end	0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
Keep-alive function, supported	Yes
Protocols	
PROFIsafe	No
Redundancy mode	
Media redundancy	
 Switchover time on line break, typ. 	200 ms; PROFINET MRP
 Number of stations in the ring, max. 	50
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	8
 Data length for connection type 01H, max. 	1 460 byte
 Data length for connection type 11H, max. 	32 768 byte
 several passive connections per port, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	8
— Data length, max.	32 768 byte
• UDP	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	8
— Data length, max.	1 472 byte
Web server	V
• supported	Yes
User-defined websites Number of UTTP elients	Yes
Number of HTTP clients communication functions / header	5
PG/OP communication	Yes
Data record routing	Yes
Global data communication	165
• supported	Yes
Number of GD loops, max.	8
Number of GD packets, max.	8
Number of GD packets, transmitter, max.	8
 Number of GD packets, receiver, max. 	8
Size of GD packets, max.	22 byte
 Size of GD packet (of which consistent), max. 	22 byte
S7 basic communication	
• supported	Yes
 User data per job, max. 	76 byte
 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
S7 communication	as server)
• 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 comm	unication 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 /	•
— Sampling interval, min.	500 ms
Number of incoming interconnections	100
Number of incoming interconnections	100
— Data length of all incoming interconnections, max.— Data length of all outgoing interconnections, max.	2 000 byte
	2 000 byte
— Data length per connection, max.	1 400 byte
performance data / PROFINET CBA / remote interconnection /	·
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	
— supported	Yes
 Number of linked PROFIBUS devices 	16
Data length per connection, max.	240 byte; Slave-dependent
Number of connections	
overall	12
 usable for PG communication 	11
 reserved for PG communication 	1
 adjustable for PG communication, min. 	1
 adjustable for PG communication, max. 	11
 usable for OP communication 	11
 reserved for OP communication 	1
 adjustable for OP communication, min. 	1
 adjustable for OP communication, max. 	11
usable for S7 basic communication	8
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, min. 	0
 adjustable for S7 basic communication, max. 	8
usable for S7 communication	10
reserved for S7 communication	0
adjustable for S7 communication, min.	0
adjustable for S7 communication, min. adjustable for S7 communication, max.	10
total number of instances, max.	32
usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max.
S7 message functions	14; X2 as PROFINET: 24 max.
Number of login stations for message functions, max.	12; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm_S blocks, max.	300
Test commissioning functions	
Status block	Vac. I In to 2 simultaneously
	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	V
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.	14
Forcing	
• Forcing	Yes
• Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	
— adjustable	No
— of which powerfail-proof	100; Only the last 100 entries are retained
 Number of entries readable in RUN, max. 	499
— adjustable	Yes; From 10 to 499
— preset	10
Service data	
• can be read out	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Status indicator digital input (green)	Yes
Status indicator digital output (green)	Yes
Integrated Functions	
Counter	
Number of counters Counting frequency may	4; See "Technological Functions" manual
Counting frequency, max.	60 kHz
Frequency measurement	Yes 4: up to 60 kHz (see "Technological Functions" manual)
Number of frequency meters controlled positioning	4; up to 60 kHz (see "Technological Functions" manual) Yes
controlled positioning integrated function blocks (closed-loop control)	Yes; PID controller (see "Technological Functions" manual)
PID controller	Yes
Number of pulse outputs	4; Pulse width modulation up to 2.5 kHz (see "Technological Functions"
	Manual)
Limit frequency (pulse)	2.5 kHz
Potential separation	2.5 kHz
Potential separation Potential separation digital inputs	
Potential separation Potential separation digital inputs • Potential separation digital inputs	Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels	Yes No
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus	Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs	Yes No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs	Yes No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels	Yes No Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels, in groups of	Yes No Yes Yes Yes Yes 8
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus	Yes No Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation analog inputs	Yes No Yes Yes Yes Yes Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus	Yes No Yes Yes Yes Yes 8
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels	Yes No Yes Yes Yes Yes Yes 8 Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs	Yes No Yes Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels • between the channels • between the channels • between the channels	Yes No Yes Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs	Yes No Yes Yes Yes Yes Yes 8 Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs	Yes No Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • Potential separation analog outputs	Yes No Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels	Yes No Yes Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels	Yes No Yes Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels and backplane bus Isolation Isolation tested with	Yes No Yes Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels • between the channels • bottween the channels and backplane bus Isolation Isolation tested with Standards, approvals, certificates	Yes No Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes 600 V DC
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels • between the channels • between the channels • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels and backplane bus Isolation Isolation Isolation tested with Standards, approvals, certificates CE mark	Yes No Yes Yes Yes Yes Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • Potential separation analog inputs • between the channels • between the channels • between the channels • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels solution Isolation Isolation tested with Standards, approvals, certificates CE mark KC approval	Yes No Yes Yes Yes Yes Yes 8 Yes: common for analog I/O No Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • Potential separation analog outputs • between the channels • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels solution Isolation Isolation tested with Standards, approvals, certificates CE mark KC approval EAC (formerly Gost-R)	Yes No Yes Yes Yes Yes Yes 8 Yes: common for analog I/O No Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • between the channels and backplane bus Isolation Isolation Isolation tested with Standards, approvals, certificates CE mark KC approval EAC (formerly Gost-R) Ambient conditions	Yes No Yes Yes Yes Yes 8 Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes 600 V DC Yes Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels • between the channels • between the channels • between the channels and backplane bus Potential separation analog outputs • Potential separation analog outputs • Potential separation analog outputs • between the channels • between the channels • between the channels • between the channels and backplane bus Isolation Isolation Isolation tested with Standards, approvals, certificates CE mark KC approval EAC (formerly Gost-R) Ambient conditions Ambient temperature during operation	Yes No Yes Yes Yes Yes 8 Yes Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes Yes Yes Yes Yes Yes Yes Yes
Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus Potential separation digital outputs • Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of • between the channels and backplane bus Potential separation analog inputs • Potential separation analog inputs • between the channels • between the channels • between the channels and backplane bus Potential separation analog outputs • between the channels and backplane bus Isolation Isolation Isolation tested with Standards, approvals, certificates CE mark KC approval EAC (formerly Gost-R) Ambient conditions Ambient temperature during operation • min.	Yes No Yes Yes Yes Yes 8 Yes; common for analog I/O No Yes Yes; common for analog I/O No Yes 600 V DC Yes Yes Yes Yes

• max.	70 °C		
Altitude during operation relating to sea level			
Installation altitude above sea level, max.	5 000 m		
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)		
Relative humidity			
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		
Resistance			
Use in stationary industrial systems			
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request		
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *		
Use on ships/at sea			
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request		
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *		
Usage in industrial process technology			
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)		
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
Remark			
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!		
configuration / header			
Configuration software			
• STEP 7	Yes; V5.5 or higher		
configuration / programming / header			
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	120 mm		
Height	125 mm		
Depth	130 mm		
Weights			
Weight, approx.	730 g		
Classifications	. 50 9		
		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
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

<u>Miscellaneous</u>



Manufacturer Declaration





<u>KC</u>

EMV

For use in hazardous locations







CCC-Ex

last modified:

12/8/2024