

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7341-1CH02-0AE0

CP 341 SERIAL COMMUNICATION PROCESSOR

Used with the applicable SIMATIC S7-300 communication modules configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

SIMATIC S7-300 Advanced Controllers

I/O modules
Communication

CP 341

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Overview



- For quick, high-performance serial data exchange via point-to-point coupling
- 3 versions with different transmission physics:
 - RS 232C (V.24),
 - 20 mA (TTY),
 - RS 422/RS 485 (X.27)
- Implemented protocols: ASCII, 3964 (R), RK 512
- The following protocols can also be loaded: Modbus RTU
- Simple parameter assignment using tool integrated in STEP 7

Ordering data

Article No.

CP 341 communications module **6ES7341-1AH02-0AE0**

With one RS 232 C (V.24) interface

RS 232 connecting cable

For linking to SIMATIC S7

5 m

6ES7902-1AB00-0AA0

10 m

6ES7902-1AC00-0AA0

15 m

6ES7902-1AD00-0AA0

CP 341 communications module **6ES7341-1BH02-0AE0**

With one 20 mA (TTY) interface

20 mA (TTY) connecting cable

For linking to SIMATIC S7

5 m

6ES7902-2AB00-0AA0

10 m

6ES7902-2AC00-0AA0

50 m

6ES7902-2AG00-0AA0

CP 341 communications module **6ES7341-1CH02-0AE0**

With one RS 422/485 (X.27) interface

RS 422/485 connecting cable

For linking to SIMATIC S7

5 m

6ES7902-3AB00-0AA0

10 m

6ES7902-3AC00-0AA0

50 m

6ES7902-3AG00-0AA0

Loadable drivers for CP 341

Modbus master (RTU format)

- Single license
- Single license, without software or documentation

6ES7870-1AA01-0YA0

6ES7870-1AA01-0YA1

Modbus slave (RTU format)

- Single license
- Single license, without software or documentation

6ES7870-1AB01-0YA0

6ES7870-1AB01-0YA1

Technical specifications

Article number	6ES7341-1AH02-0AE0	6ES7341-1BH02-0AE0	6ES7341-1CH02-0AE0
	CP 341 RS232C (V.24)	CP341 20mA-Interface (TTY)	CP341 RS422/485-Interface
General information			
Product type designation	CP 341	CP 341	CP 341
Supply voltage			
Rated value (DC)			
• 24 V DC	Yes	Yes	Yes
Input current			
from supply voltage L+, max.	100 mA	100 mA	100 mA
from backplane bus 5 V DC, max.	70 mA	70 mA	70 mA
Power loss			
Power loss, typ.	1.6 W	1.6 W	1.6 W
Interfaces			
Interfaces/bus type	RS 232C (V.24)	20 mA (TTY)	RS 422 / 485 (X.27)
Number of interfaces	1; Isolated	1; Isolated	1; Isolated
Transmission rate, min.	0.3 kbit/s	0.3 kbit/s	0.3 kbit/s
Transmission rate, max.	115.2 kbit/s	19.2 kbit/s	115.2 kbit/s

Technical specifications

Article number	6ES7341-1AH02-0AE0 CP 341 RS232C (V.24)	6ES7341-1BH02-0AE0 CP341 20mA-Interface (TTY)	6ES7341-1CH02-0AE0 CP341 RS422/485-Interface
Point-to-point connection			
• Cable length, max.	15 m	1 000 m	1 200 m
• supported printers	Serial printers	Serial printers	Serial printers
• Connector type	9-pin sub D connector	9-pin sub D socket	15-pin sub D socket
Integrated protocol driver			
- 3964 (R)	Yes	Yes	Yes; not with RS 485
- ASCII	Yes	Yes	Yes
- RK 512	Yes	Yes	Yes; not with RS 485
Telegram length, max.			
- 3964 (R)	4 096 byte	4 096 byte	4 096 byte
- ASCII	4 096 byte	4 096 byte	4 096 byte
- RK 512	4 096 byte	4 096 byte	4 096 byte
Transmission rate, 20 mA (TTY)			
- with 3964 (R) protocol, max.		19.2 kbit/s	
- with ASCII protocol, max.		19.2 kbit/s	
- with printer driver, max.		19.2 kbit/s	
- with RK 512 protocol, max.		19.2 kbit/s	
Transmission rate, RS 422/485			
- with 3964 (R) protocol, max.			115.2 kbit/s
- with ASCII protocol, max.			115.2 kbit/s
- with printer driver, max.			115.2 kbit/s
- with RK 512 protocol, max.			115.2 kbit/s
Transmission speed, RS 232			
- with 3964 (R) protocol, max.	115.2 kbit/s		
- with ASCII protocol, max.	115.2 kbit/s		
- with printer driver, max.	115.2 kbit/s		
- with RK 512 protocol, max.	115.2 kbit/s		
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	60 °C	60 °C	60 °C
Ambient temperature during storage/transportation			
• min.	-40 °C	-40 °C	-40 °C
• max.	70 °C	70 °C	70 °C
Software			
Block			
• FB length in RAM, max.	6 100 byte; Data communication, sending and receiving	6 100 byte; Data communication, sending and receiving	6 100 byte; Data communication, sending and receiving
connection method			
Design of electrical connection for supply voltage	3 screw-type terminals: L+, M, GND	3 screw-type terminals: L+, M, GND	3 screw-type terminals: L+, M, GND
Dimensions			
Width	40 mm	40 mm	40 mm
Height	125 mm	125 mm	125 mm
Depth	120 mm	120 mm	120 mm
Weights			
Weight, approx.	300 g	300 g	300 g