

**Overview**

- For quick, high-performance 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
- Easy configuration using a parameterization tool integrated in STEP 7

**Technical specifications**

Article number	<b>6ES7341-1AH02-0AE0</b> CP 341 RS232C (V.24)	<b>6ES7341-1BH02-0AE0</b> CP341 20MA-INTERFACE (TTY)	<b>6ES7341-1CH02-0AE0</b> CP341 RS422/485-INTERFACE
<b>Product type designation</b>			
<b>Supply voltage</b>			
Rated value (DC)			
• 24 V DC	Yes	Yes	Yes
<b>Input current</b>			
from backplane bus 5 V DC, max.	70 mA	70 mA	70 mA
from supply voltage L+, max.	100 mA	100 mA	100 mA
<b>Power losses</b>			
Power loss, typ.	1.6 W	1.6 W	1.6 W
Power loss, max.	2.4 W	2.4 W	2.4 W
<b>Interfaces</b>			
Number of interfaces	1; Isolated	1; Isolated	1; Isolated
Interface physics, 20 mA (TTY)		Yes	
Interface physics, RS 232C (V.24)	Yes		
Interface physics, RS 422/RS 485 (X.27)			Yes
Transmission rate, max.	115.2 kbit/s	19.2 kbit/s	115.2 kbit/s
Transmission rate, min.	0.3 kbit/s	0.3 kbit/s	0.3 kbit/s
<b>Point-to-point</b>			
• 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
<b>Integrated protocol driver</b>			
- 3964 (R)	Yes	Yes	Yes; not with RS 485
- ASCII	Yes	Yes	Yes
- RK512	Yes	Yes	Yes; not with RS 485
<b>Telegram length, max.</b>			
- 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

**SIMATIC S7-300 advanced controller**

I/O modules

Communication

**CP 341****Technical specifications** (continued)

Article number	<b>6ES7341-1AH02-0AE0</b> CP 341 RS232C (V.24)	<b>6ES7341-1BH02-0AE0</b> CP341 20MA-INTERFACE (TTY)	<b>6ES7341-1CH02-0AE0</b> CP341 RS422/485-INTERFACE
<b>Transmission speed, 20 mA (TTY)</b>			
- 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	
<b>Transmission speed, RS 422/485</b>			
- 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
<b>Transmission speed, RS232</b>			
- 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		
<b>Ambient conditions</b>			
<b>Ambient temperature in operation</b>			
• Min.	0 °C	0 °C	0 °C
• max.	60 °C	60 °C	60 °C
<b>Software</b>			
<b>Block</b>			
• 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
<b>Connection method</b>			
Power supply	3 screw-type terminals: L+, M, GND	3 screw-type terminals: L+, M, GND	3 screw-type terminals: L+, M, GND
<b>Dimensions</b>			
Width	40 mm	40 mm	40 mm
Height	125 mm	125 mm	125 mm
Depth	120 mm	120 mm	120 mm
<b>Weights</b>			
Weight, approx.	300 g	300 g	300 g

**Ordering data**

	<b>Article No.</b>		<b>Article No.</b>
<b>CP 341 communication module</b>	<b>6ES7341-1AH02-0AE0</b>	<b>CP 341 communication module</b>	<b>6ES7341-1CH02-0AE0</b>
With one RS 232 C (V.24) interface		With one RS 422/485 (X.27) interface	
<b>RS 232 connecting cable</b>		<b>RS 422/485 connecting cable</b>	
For linking to SIMATIC S7		For linking to SIMATIC S7	
5 m	<b>6ES7902-1AB00-0AA0</b>	5 m	<b>6ES7902-3AB00-0AA0</b>
10 m	<b>6ES7902-1AC00-0AA0</b>	10 m	<b>6ES7902-3AC00-0AA0</b>
15 m	<b>6ES7902-1AD00-0AA0</b>	50 m	<b>6ES7902-3AG00-0AA0</b>
<b>CP 341 communication module</b>	<b>6ES7341-1BH02-0AE0</b>	<b>Loadable drivers for CP 341</b>	
With one 20 mA (TTY) interface		Modbus master (RTU format)	
<b>20 mA (TTY) connecting cable</b>		• Single license	<b>6ES7870-1AA01-0YA0</b>
For linking to SIMATIC S7		• Single license, without software or documentation	<b>6ES7870-1AA01-0YA1</b>
5 m	<b>6ES7902-2AB00-0AA0</b>	Modbus slave (RTU format)	
10 m	<b>6ES7902-2AC00-0AA0</b>	• Single license	<b>6ES7870-1AB01-0YA0</b>
50 m	<b>6ES7902-2AG00-0AA0</b>	• Single license, without software or documentation	<b>6ES7870-1AB01-0YA1</b>