

Overview

- The economical complete solution for serial communication via point-to-point links.
- 3 versions with different transmission interfaces:
 - RS 232C (V.24)
 - 20 mA (TTY)
 - RS 422/RS 485 (X.27)
- Implemented protocols:
 - ASCII
 - 3964 (R) (not for RS 485)
 - Printer driver
- Simple parameterization via a parameterization tool integrated into STEP 7

Technical specifications

Article number	6ES7340-1AH02-0AE0 SIMATIC S7-300, CP 340	6ES7340-1BH02-0AE0 SIMATIC S7-300, CP 340	6ES7340-1CH02-0AE0 SIMATIC S7-300, CP 340
Product type designation			
Supply voltage			
Rated value (DC)			
• 24 V DC	No; Power supply via backplane bus 5V	No; Power supply via backplane bus 5V	No; Power supply via backplane bus 5V
Input current			
from backplane bus 5 V DC, max.	165 mA	190 mA	165 mA
Power losses			
Power loss, typ.	0.6 W	0.85 W	0.6 W
Power loss, max.	0.85 W	0.95 W	0.85 W
Interfaces			
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.	19.2 kbit/s	19.2 kbit/s	19.2 kbit/s
Transmission rate, min.	2.4 kbit/s	2.4 kbit/s	2.4 kbit/s
Point-to-point			
• Cable length, max.	15 m	1 000 m; 100 m active, 1000 m passive	1 200 m
• supported printers	HP-Deskjet, HP-Laserjet, IBM-Proprietary, user-defined	HP-Deskjet, HP-Laserjet, IBM-Proprietary, user-defined	HP-Deskjet, HP-Laserjet, IBM-Proprietary, user-defined
• 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
- ASCII	Yes	Yes	Yes
- RK512	No	No	No
- customer-specific drivers reloadable	No	No	No
Telegram length, max.			
- 3964 (R)	1 024 byte	1 024 byte	1 024 byte
- ASCII	1 024 byte	1 024 byte	1 024 byte

SIMATIC S7-300 advanced controller

I/O modules

Communication

CP 340**Technical specifications** (continued)

Article number	6ES7340-1AH02-0AE0 SIMATIC S7-300, CP 340	6ES7340-1BH02-0AE0 SIMATIC S7-300, CP 340	6ES7340-1CH02-0AE0 SIMATIC S7-300, CP 340
Transmission speed, 20 mA (TTY)			
- with 3964 (R) protocol, max.		19.2 kbit/s	
- with ASCII protocol, max.		9.6 kbit/s	
- with printer driver, max.,		9.6 kbit/s	
Transmission speed, RS 422/485			
- with 3964 (R) protocol, max.			19,2 kbit/s
- with ASCII protocol, max.			9.6 kbit/s
- with printer driver, max.,			9.6 kbit/s
Transmission speed, RS232			
- with 3964 (R) protocol, max.	19.2 kbit/s		
- with ASCII protocol, max.	9.6 kbit/s		
- with printer driver, max.,	9.6 kbit/s		
Ambient conditions			
Ambient temperature in operation			
• Min.	0 °C	0 °C	0 °C
• max.	60 °C	60 °C	60 °C
Software			
Block			
• FB length in RAM, max.	2 700 byte; Data communication, sending and receiving	2 700 byte; Data communication, sending and receiving	2 700 byte; Data communication, sending and receiving
Connection method			
Power supply	Over backplane bus	Over backplane bus	Over backplane bus
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

Ordering data**Article No.****Article No.**

CP 340 communications processor	6ES7340-1AH02-0AE0	CP 340 communications processor	6ES7340-1CH02-0AE0
With one RS 232 C (V.24) interface		With one RS 422/485 (X.27) interface	
RS 232 connecting cable		RS 422/485 connecting cable	
For linking to SIMATIC S7		For linking to SIMATIC S7	
5 m	6ES7902-1AB00-0AA0	5 m	6ES7902-3AB00-0AA0
10 m	6ES7902-1AC00-0AA0	10 m	6ES7902-3AC00-0AA0
15 m	6ES7902-1AD00-0AA0	50 m	6ES7902-3AG00-0AA0
CP 340 communications processor	6ES7340-1BH02-0AE0		
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		