	6ES7417-4XT07-0AB0
Number of additional values	
In 100 ms interval, max.	1
In 500, 1000 ms interval, max.	10
Test and commissioning functions	
Block status	Yes; up to 16 simultaneously
Single-step	Yes
Number of breakpoints	16
Status/modify	
Status/modify variable	Yes; up to 16 variable tables
Variables	Inputs/outputs, bit memory, DB, I/O inputs/outputs, timers, counters
Number of variables, max.	70; Status / Modify
Forcing	
Forcing	Yes
Force, variables	Inputs, outputs, bit memories, distributed I/O
Number of variables, max.	512
Diagnostics buffer	
Available	Yes
Number of entries, max.	3200
• Adjustable	Yes
• Default	120
Service data	
Readable	Yes
EMC	
Emission of radio interference according to EN 55 011	
Limit class A, for use in industrial areas	
Limit class B, for use in residential areas	
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
ATEX	ATEX II 3 G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
Min.	0° C
Max.	60 °C

	6ES7417-4XT07-0AB0
Configuration	
Programming	
Instruction set	See instruction list
Nesting levels	7
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
Number of simultaneously active SFCs	
• DPSYC_FR	2; SFC 11; per interface
• D_ACT_DP	8; SFC 12; per interface
• RD_REC	8; SFC 59; per interface
• WR_REC	8; SFC 58; per interface
• WR_PARM	8; SFC 55; per interface
• PARM_MOD	1; SFC 57; per interface
• WR_DPARM	2; SFC 56; per interface
• DPNRM_DG	8; SFC 13; per interface
• RDSYSST	8; SFC 51
• DP_TOPOL	1; SFC 103; per interface
Number of simultaneously active SFBs	
• RDREC	8; SFB 52; per interface, but not more than 32 across all external interfaces
• WRREC	8; SFB 53; per interface, but not more than 32 across all external interfaces
Know-how protection	
User program/password protection	Yes
Block encryption	Yes; with S7 block privacy
Dimensions	
Width	50 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	900 g

10.11 Technical specifications of the memory cards

Data

Name	Article number	Current consumption at 5 V	Backup currents
MC 952 / 64 KB / RAM	6ES7952-0AF00-0AA0	typ. 20 mA max. 50 mA	typ. 0.5 µA max. 20 µA
MC 952 / 256 KB / RAM	6ES7952-1AH00-0AA0	typ. 35 mA max. 80 mA	typ. 1 µA max. 40 µA
MC 952 / 1 MB / RAM	6ES7952-1AK00-0AA0	typ. 40 mA max. 90 mA	typ. 3 µA max. 50 µA
MC 952 / 2 MB / RAM	6ES7952-1AL00-0AA0	typ. 45 mA max. 100 mA	typ. 5 µA max. 60 µA
MC 952 / 4 MB / RAM	6ES7952-1AM00-0AA0	typ. 45 mA max. 100 mA	typ. 5 µA max. 60 µA
MC 952 / 8 MB / RAM	6ES7952-1AP00-0AA0	typ. 45 mA max. 100 mA	typ. 5 µA max. 60 µA
MC 952 / 16 MB / RAM	6ES7952-1AS00-0AA0	typ. 100 mA max. 150 mA	typ. 50 µA max. 125 µA
MC 952 / 64 MB / RAM	6ES7952-1AY00-0AA0	typ. 100 mA max. 150 mA	typ. 100 µA max. 500 µA
MC 952 / 64 KB / 5V FLASH	6ES7952-0KF00-0AA0	typ. 15 mA max. 35 mA	–
MC 952 / 256 KB / 5V FLASH	6ES7952-0KH00-0AA0	typ. 20 mA max. 45 mA	–
MC 952 / 1 MB / 5V FLASH	6ES7952-1KK00-0AA0	typ. 40 mA max. 90 mA	–
MC 952 / 2 MB / 5V FLASH	6ES7952-1KL00-0AA0	typ. 50 mA max. 100 mA	–
MC 952 / 4 MB / 5V FLASH	6ES7952-1KM00-0AA0	typ. 40 mA max. 90 mA	–
MC 952 / 8 MB / 5V FLASH	6ES7952-1KP00-0AA0	typ. 50 mA max. 100 mA	–
MC 952 / 16 MB / 5V FLASH	6ES7952-1KS00-0AA0	typ. 55 mA max. 110 mA	–
MC 952 / 32 MB / 5V FLASH	6ES7952-1KT00-0AA0	typ. 55 mA max. 110 mA	–
MC 952 / 64 MB / 5V FLASH	6ES7952-1KY00-0AA0	typ. 55 mA max. 110 mA	–
Dimensions WxHxD (in mm)		7.5 x 57 x 87	
Weight		max. 35 g	
EMC protection		Provided by construction	

IF 964-DP interface module

11

11.1 Using the IF 964-DP interface module

Article numbers

Use the IF 964-DP interface module with the article number 6ES7964-2AA04-0AB0 in the CPUs of the S7-400 as of firmware version 4.0.

The interface module identifier is on the front panel and can therefore be identified when it is installed.

Properties

The IF 964-DP interface module is used to connect distributed I/Os via "PROFIBUS DP". The module has an electrically isolated RS485 interface. The maximum transmission rate is 12 Mbps.

The permitted cable length depends on the transmission rate and the number of nodes. On a point-to-point link at a transmission rate of 12 Mbps, a cable length of 100 m is possible and at 9.6 Kbps, a length of 1200 m can be achieved.

Up to 125 slave stations/slaves can be connected to the interface module, depending on the CPU used.

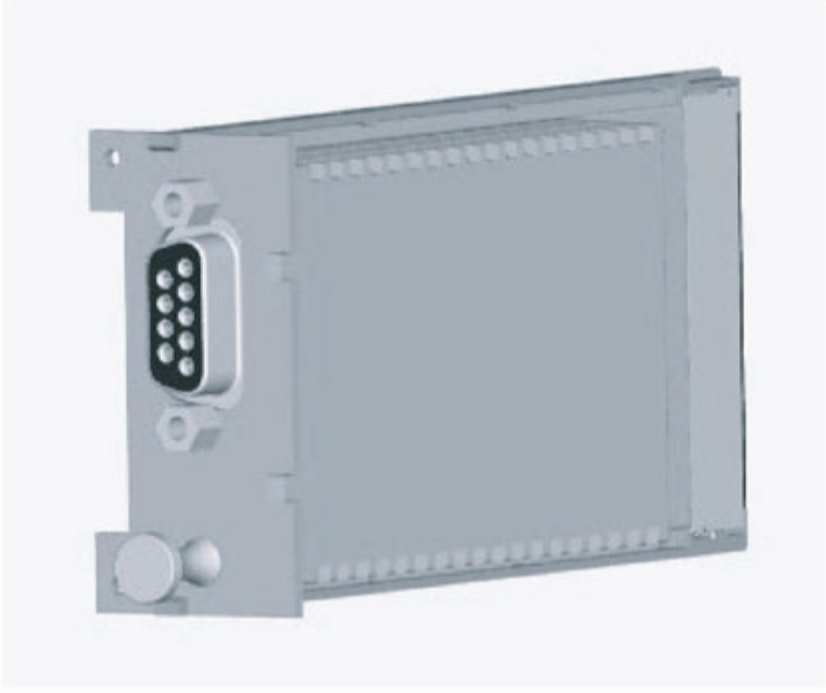


Figure 11-1 IF 964-DP interface module