

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6ES7653-2CE00-0XB0

Siemens official documentation for the exact article number.

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Selected official Siemens pages follow this cover.

SIMATIC PCS 7 SYSTEM EXPANSION CARD UP TO 1000
PROCESS OBJECTS FOR PCS 7 CPU410-5H

General information	
Product type designation	PCS 7 System Expansion Card PO 1000
HW functional status	3
Firmware version	V2.0
Design of PLC basic unit	With Conformal Coating (ISA-S71.04 severity level G1; G2; G3) and operating temperature to 70 °C
Memory	
PCS 7 process objects	1 000; PO for CPU 410-5H; expandable by means of CPU 410 Expansion Pack PO 100 or PO 500
Work memory	
• integrated	Use of max. 19.8 MB work memory in the CPU 410-5H
• expandable	Yes, by means of CPU 410 Expansion Pack PO 100 or PO 500
CPU-blocks	
DB	
• Size, max.	64 kbyte; The total size of all data blocks generated with the SFC 22 (CREATE_DB) is limited to 256 KB
Address area	
I/O address area	
• Inputs	Use of 16 KB in the CPU 410-5H
• Outputs	Use of 16 KB in the CPU 410-5H
of which distributed	
— DP interface, inputs	6 kbyte; up to 2 800 IOs (channels)
— DP interface, outputs	6 kbyte; up to 2 800 IOs (channels)
— PROFINET interface, inputs	8 kbyte; up to 3 800 IOs (channels)
— PROFINET interface, outputs	8 kbyte; up to 3 800 IOs (channels)
Process image	
• Inputs, default	Total peripheral address range, cannot be changed
• Outputs, default	Total peripheral address range, cannot be changed
Digital channels	
• Inputs	131 072; max.
— of which central	131 072; max.
• Outputs	131 072; max.
— of which central	131 072; max.
Analog channels	
• Inputs	8 192; max.

— of which central	8 192; max.
• Outputs	8 192; max.
— of which central	8 192; max.
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 3G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	70 °C
Configuration	
Configuration software	
• STEP 7	No
Programming	
Programming language	
— LAD	No
— FBD	No
— STL	No
— SCL	Yes
— CFC	Yes
— GRAPH	No
— HiGraph®	No
Dimensions	
Width	8 mm
Height	16 mm
Depth	25 mm
Weights	
Weight, approx.	20 g
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