SIEMENS

Data sheet 6ES7653-2CG00-0XB0

	SIMATIC System Expansion Card up to approximately 2600 process objects suitable for CPU 410-5H
General information	
Product type designation	PCS 7 System Expansion Card PO 2k+
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
Storage	
PCS 7 process objects	approx. 2 600 POs for CPU 410-5H
Work memory	
● integrated	Use of max. 32 MB work memory in the CPU 410-5H
● expandable	No
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	16 kbyte
● Outputs	16 kbyte
Process image	
● Inputs, default	Total peripheral address range, cannot be changed
● Outputs, default	Total peripheral address range, cannot be changed
1. Interface	
PROFIBUS DP master	
Address area	
— Inputs, max.	6 kbyte
— Outputs, max.	6 kbyte
2. Interface	
PROFINET IO Controller	
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
3. Interface	
PROFINET IO Controller	
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
Standards, approvals, certificates	
CE mark	Yes
UKCA 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
CCC	Yes
Use in hazardous areas	
● ATEX marking	ATEX II 3G Ex ec IIC T4 Gc

Subject to change without notice
© Copyright Siemens

Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	70 °C
Dimensions	
Width	8 mm
Height	16 mm
Depth	25 mm
Weights	
Weight, approx.	20 g

Classifications

	Version	Classification
eClass	16	27-24-25-01
eClass	14	27-24-25-01
eClass	12	27-24-25-01
eClass	9.1	27-24-25-01
eClass	9	27-24-25-01
eClass	8	27-24-25-01
eClass	7.1	27-24-25-01
eClass	6	27-24-25-01
ETIM	10	EC000809
ETIM	9	EC000809
ETIM	8	EC000809
ETIM	7	EC000809

Approvals / Certificates

General Product Approval



Miscellaneous









General Product Approval



China RoHS

Miscellaneous

Manufacturer Declaration

For use in hazardous locations





For use in hazardous locations

FM





Type Examination Certificate



Maritime application



Maritime application







NK / Nippon Kaiji Kyokai



CCS (China Classification Society)

Environment

Subject to change without notice
© Copyright Siemens

last modified:	9/11/2026

Subject to change without notice
© Copyright Siemens