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Data sheet 6ES7653-2DP01-0XB0

	SIMATIC System Expansion Card, up to 8 MB work memory and R1 license, with 4 KB each inputs and outputs suitable for CPU 410-5H
General information	
Product type designation	CPU 410 System Expansion Card 8MB incl. R1
HW functional status	03
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	
Work memory	
● integrated	use of max. 8 MB work memory in the CPU 410-5H
● integrated (for program)	Use of max. 4 MB work memory in the CPU 410-5H
● integrated (for data)	Use of max. 4 MB work memory in the CPU 410-5H
● expandable	No
Address area	
I/O address area	
● Inputs	use of 4 KB in the CPU 410-5H
● Outputs	use of 4 KB in the CPU 410-5H
Process image	
● Inputs, default	Total peripheral address range, cannot be changed
● Outputs, default	Total peripheral address range, cannot be changed
Digital channels	
● Inputs	32 768; max.
— of which central	32 768; max.
● Outputs	32 768; max.
— of which central	32 768; max.
Analog channels	
● Inputs	2 048; max.
— of which central	2 048; max.
● Outputs	2 048; max.
— of which central	2 048; max.
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
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	70 °C
Configuration	
Configuration software	
● STEP 7	Yes

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Programming	
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
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				For use in hazardous locations	
EG-Konf.	UKCA	UL	Manufacturer Declaration	ATEX	FM

For use in hazardous locations			Maritime application		Environment
IECEx	Type Examination Certificate	ATEX	DNV	CCS (China Classification Society)	EPD

last modified: 9/11/2026

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