SIEMENS

Data sheet 6ES7653-2DD01-0XB0

	SIMATIC System Expansion Card, up to 4 MB work memory and R1 license, with 2 KB each inputs and outputs suitable for CPU 410E
General information	
Product type designation	CPU 410E System Expansion Card E4MB 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. 4 MB work memory in the CPU 410E
● integrated (for program)	use of max. 2 MB work memory in the CPU 410E
● integrated (for data)	use of max. 2 MB work memory in the CPU 410E
● expandable	No
Address area	
I/O address area	
● Inputs	Use of 2 048 bytes in the CPU 410E
● Outputs	Use of 2 048 bytes in the CPU 410E
Process image	
● Inputs, default	Total peripheral address range, cannot be changed
● Outputs, default	Total peripheral address range, cannot be changed
Digital channels	
● Inputs	16 384; max.
— of which central	16 384; max.
● Outputs	16 384; max.
— of which central	16 384; max.
Analog channels	
● Inputs	1 024; max.
— of which central	1 024; max.
● Outputs	1 024; max.
— of which central	1 024; 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

Subject to change without notice
© Copyright Siemens

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	
CE EG-Konf.	UKCA	UL	Manufacturer Declaration	ATEX	FM

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

last modified: 9/11/2026

Subject to change without notice
© Copyright Siemens