SIEMENS

Data sheet 6GK7277-1AA50-0AA0



CSM 1277 G2 compact switch module for SIMATIC S7-1200 G2 and up to 3 further nodes to Industrial Ethernet with 10/100 Mbps; unmanaged switch, 4 RJ45 ports, external 24 V DC power supply LED diagnostics, S7-1200 module incl. Equipment Manual for download available

product type designation	
product brand name	SCALANCE
product type designation	CSM 1277 G2
Technical Product Detail Page	https://i.siemens.com/1P6GK7277-1AA50-0AA0
transfer rate	
transfer rate	10, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	4; RJ45
interfaces / other	
number of electrical connections	
● for power supply	1
type of electrical connection	
● for power supply	6-pole terminal block
supply voltage, current consumption, power loss	
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	1 W
● supply voltage / 1 / voltage range	19.2 ... 28.8
● consumed current / 1 / maximum	0.34 A
● type of electrical connection / 1 / for power supply	6-pole terminal block
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	F 0,5 A / 60 V
ambient conditions	
ambient temperature	
● during operation	-20 ... +60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
ambient temperature / in horizontal mounting position / during operation	-20 ... +60 °C
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	SIMATIC S7-1200 device design
width	30 mm
height	125 mm
depth	100 mm

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net weight	0.166 kg
fastening method	
● 35 mm DIN-rail mounting	Yes
● wall mounting	Yes
● S7-300 rail mounting	No
● S7-1500 rail mounting	No
product features, product functions, product components / general	
number of automatically learnable MAC addresses	2048
number of QoS queues / per port	4
product function	
● QoS according to IEEE 802.1Q	Yes
product functions / management, configuration, engineering	
product function	
● multiport mirroring	No
● CoS	Yes
● switch-managed	No
PROFINET conformity class	A
telegram length / for Ethernet / maximum	1536 byte
product functions / redundancy	
product function	
● Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UKCA marking	Yes
● EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1	Yes
● cULus approval	Yes
● KC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
standard	
● for EMC interference emission	EN 61000-6-4 (Class A)
● for immunity to EMC	EN 61000-6-2
● for safety / from CSA and UL	UL 61010-1, CAN/CSA-C222 No. 61010-1, UL 61010-2-201, CAN/CSA-C22.2 No. 61010-2-201
standards, specifications, approvals / other	
certificate of suitability	
● RoHS conformity	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	27.29 kg
● during manufacturing	2.7 kg
● during operation	24.3 kg
● after end of life	0.29 kg
product functions / general	
MTBF	268 a
reference temperature / for MTBF determination	40 °C
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb

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● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates	
Environmental Product Declaration	
● global warming potential [CO2 eq] / during manufacturing	2.7 kg
● global warming potential [CO2 eq] / during operation	24.3 kg
● global warming potential [CO2 eq] / after end of life	0.29 kg
● global warming potential [CO2 eq] / total	27.29 kg

Environment	General Product Approval				
					China RoHS

Radio Equipment Type Approval Certificate	Industrial Communication
	PROFINET

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