



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

net weight	0.166 kg
fastening method	
<ul style="list-style-type: none"> • 35 mm DIN-rail mounting 	Yes
<ul style="list-style-type: none"> • wall mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	No
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • QoS according to IEEE 802.1Q 	Yes

product functions / management, configuration, engineering

product function	
<ul style="list-style-type: none"> • multiport mirroring 	No
<ul style="list-style-type: none"> • CoS 	Yes
<ul style="list-style-type: none"> • switch-managed 	No
PROFINET conformity class	A
telegram length / for Ethernet / maximum	1536 byte

product functions / redundancy

product function	
<ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
<ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UKCA marking 	Yes
<ul style="list-style-type: none"> • EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1 	Yes
<ul style="list-style-type: none"> • cULus approval 	Yes
<ul style="list-style-type: none"> • KC approval 	Yes
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	Yes
standard	
<ul style="list-style-type: none"> • for EMC interference emission 	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> • for immunity to EMC 	EN 61000-6-2
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • RoHS conformity 	Yes

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	27.29 kg
<ul style="list-style-type: none"> • during manufacturing 	2.7 kg
<ul style="list-style-type: none"> • during operation 	24.3 kg
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb

- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/cax>

<https://support.industry.siemens.com>

security information

security information

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Approvals / Certificates

Environmental Product Declaration

• global warming potential [CO2 eq] / during manufacturing	2.7 kg
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• 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	Radio Equipment Type Approval Certificate
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