



Compact Switch Module CSM 1277 for connecting SIMATIC S7-1200 and up to 3 further nodes to Industrial Ethernet with 10/100 Mbit/s; unmanaged switch, 4 RJ45 ports, ext. 24 V DC power supply LED diagnostics, S7-1200 module incl. electronic Equipment Manual on CD-ROM.

product type designation	
product brand name	SCALANCE
product type designation	CSM 1277
Technical Product Detail Page	<a href="https://i.siemens.com/1P6GK7277-1AA10-0AA0">https://i.siemens.com/1P6GK7277-1AA10-0AA0</a>
transfer rate	
transfer rate	10, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	4
number of 100 Mbit/s SC ports	
• for multimode	0
interfaces / other	
number of electrical connections	
• for power supply	1
supply voltage, current consumption, power loss	
<b>type of voltage / 1 / of the supply voltage</b>	
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	1.6 W
• supply voltage / 1 / voltage range	19.2 ... 28.8
• consumed current / 1 / maximum	0.07 A
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °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	45 mm
height	100 mm
depth	75 mm
net weight	0.15 kg
fastening method	
• 35 mm DIN-rail mounting	Yes
• wall mounting	Yes

<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• S7-1500 rail mounting</li> </ul>	No
<b>product functions / management, configuration, engineering</b>	
product function	
<ul style="list-style-type: none"> <li>• multiport mirroring</li> </ul>	No
<ul style="list-style-type: none"> <li>• switch-managed</li> </ul>	No
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UKCA marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• cULus approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• KC approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>	Yes
standard	
<ul style="list-style-type: none"> <li>• for EMC interference emission</li> </ul>	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> <li>• for immunity to EMC</li> </ul>	EN 61000-6-2
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 508, CSA C22.2 No. 142
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UKEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• CCC / for hazardous zone according to GB standard</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• FM registration</li> </ul>	Yes
<b>standards, specifications, approvals / other</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes
<b>standards, specifications, approvals / marine classification</b>	
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Chinese Classification Society (CCS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Korean Register of Shipping (KRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> </ul>	65.14 kg
<ul style="list-style-type: none"> <li>• during manufacturing</li> </ul>	7.42 kg
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	57.58 kg
<ul style="list-style-type: none"> <li>• after end of life</li> </ul>	0.14 kg
<b>product functions / general</b>	
MTBF	273 a
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>

- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://www.siemens.com/simatic-net>
- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

### security information

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### Approvals / Certificates

#### General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)

#### General Product Approval

EMV

For use in hazardous locations



[KC](#)



[FM](#)

#### For use in hazardous locations

Maritime application



[CCC-Ex](#)



#### Maritime application

Environment

[NK / Nippon Kaiji Kyokai](#)



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