



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                      |
| transfer rate   |                               |
| transfer rate   | 10 Mbit/s, 100 Mbit/s         |
| interfaces / for communication / integrated   |                               |
| number of electrical connections<br>• for network components or terminal equipment  | 4                             |
| number of 100 Mbit/s SC ports<br>• for multimode                                    | 0                             |
| interfaces / other  |                               |
| number of electrical connections<br>• for power supply                              | 1                             |
| type of electrical connection<br>• for power supply                                 | 3-pole terminal block         |
| supply voltage, current consumption, power loss                                     |                               |
| <b>type of voltage / 1 / of the supply voltage</b>                                  | DC                            |
| • supply voltage / 1 / rated value  | 24 V                          |
| • power loss [W] / 1 / rated value  | 1.6 W                         |
| • supply voltage / 1 / rated value  | 19.2 ... 28.8 V               |
| • consumed current / 1 / maximum  | 0.07 A                        |
| • type of electrical connection / 1 / for power supply                              | 3-pole terminal block         |
| • product component / 1 / fusing at power supply input                              | Yes                           |
| • fuse protection type / 1 / at input for supply voltage                            | 0, A / 60 V                   |
| ambient conditions  |                               |
| ambient temperature<br>• during operation   | 0 ... 60 °C                   |
| • during storage  | -40 ... +70 °C                |
| • during transport  | -40 ... +70 °C                |
| relative humidity<br>• 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  |                               |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• 35 mm DIN-rail mounting</li> </ul>   | Yes   |
| <ul style="list-style-type: none"> <li>• wall mounting</li> </ul>   | 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>• 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>                     | Yes   |
| <ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>                         | Yes   |
| <ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>• DNV GL</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>                                 | Yes   |
| <ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>  | Yes   |
| <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>                      | No  |
| <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   |
| reference code  |   |
| <ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> </ul>  | KF  |
| <ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>                                     | KFE   |
| 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> |

- to web page: selection aid TIA Selection Tool
- 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/tstcloud>
- <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

security information

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## Approvals / Certificates

### General Product Approval



[Declaration of Conformity](#)



### General Product Approval

For use in hazardous locations



[FM](#)



[CCC-Ex](#)

### Marine / Shipping



[NK / Nippon Kaiji Kyokai](#)



### Environment

[Confirmation](#)



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