SIEMENS

## Data sheet 6GK7277-1AA10-0AA0



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 | https://i.siemens.com/1P6GK7277-1AA10-0AA0 |
| **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 |
| type of electrical connection | |
| ● for power supply | 3-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 | 1.6 W |
| ● supply voltage / 1 / voltage range | 19.2 ... 28.8 |
| ● 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 | 0,5 A / 60 V |
| **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 |


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| | |
|---|---|
| net weight | 0.15 kg |
| fastening method | |
| ● 35 mm DIN-rail mounting | Yes |
| ● wall mounting | Yes |
| ● S7-300 rail mounting | No |
| ● S7-1500 rail mounting | No |
| **product functions / management, configuration, engineering** | |
| product function | |
| ● multiport mirroring | No |
| ● switch-managed | No |
| **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 |
| ● cULus approval | Yes |
| ● KC approval | No |
| ● 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 508, CSA C22.2 No. 142 |
| **standards, specifications, approvals / hazardous environments** | |
| certificate of suitability | |
| ● ATEX | Yes |
| ● UKEX | Yes |
| ● IECEx | Yes |
| ● CCC / for hazardous zone according to GB standard | Yes |
| ● FM registration | Yes |
| **standards, specifications, approvals / other** | |
| certificate of suitability | |
| ● RoHS conformity | Yes |
| **standards, specifications, approvals / marine classification** | |
| certificate of suitability / shipbuilding approval / note | Certifications marked 'No' are currently under renewal. |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | No |
| ● French marine classification society (BV) | No |
| ● Chinese Classification Society (CCS) | No |
| ● Det Norske Veritas (DNV) | No |
| ● Korean Register of Shipping (KRS) | No |
| ● Lloyds Register of Shipping (LRS) | No |
| ● Nippon Kaiji Kyokai (NK) | No |
| ● Polski Rejestr Statkow (PRS) | No |
| ● Royal Institution of Naval Architects (RINA) | Yes |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 65.14 kg |
| ● during manufacturing | 7.42 kg |
| ● during operation | 57.58 kg |
| ● after end of life | 0.14 kg |
| **product functions / general** | |
| MTBF | 273 a |
| warranty period | 5 a |


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

**security information**

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|---|---|
| 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 | 7.42 kg |
| ● global warming potential [CO2 eq] / during operation | 57.58 kg |
| ● global warming potential [CO2 eq] / after end of life | 0.14 kg |
| ● global warming potential [CO2 eq] / total | 65.14 kg |

**Environment** | **General Product Approval**

EPD EPD CE EG-Konf. UKCA Declaration of Conformity CCC

**General Product Approval**

EAC China RoHS Manufacturer Declaration UL RCM China RoHS

**General Product Approval** | **EMV** | **For use in hazardous locations**

CE EG-Konf. UKCA KC IECEx ATEX FM

**For use in hazardous locations** | **Maritime application**

KEMA CCC-Ex ABS BUREAU VERITAS DNV LRS


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**Maritime application**

NK / Nippon Kaiji Kyokai




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