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 top hat 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 | | | | |
|---|---|---|---|---|---|
| EPD | CE EG-Konf. | UKCA | UL | RCM | China RoHS |

| Radio Equipment Type Approval Certificate | Industrial Communication |
|---|---|
| KC | PROFINET |

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