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## Data sheet 6GK5324-4GG10-1ER2

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 1x 24 V DC; Ports in the front.

| | |
|---|---|
| **product type designation** | |
| product brand name | SCALANCE |
| product type designation | XR324-4M EEC |
| Technical Product Detail Page | https://i.siemens.com/1P6GK5324-4GG10-1ER2 |
| **transfer rate** | |
| transfer rate | 10, 100, 1000 Mbit/s |
| **interfaces / for communication / integrated** | |
| number of electrical connections | |
| ● for network components or terminal equipment | 16; RJ45 |
| number of 100 Mbit/s ST(BFOC) ports | |
| ● for multimode | 8 |
| number of 100 Mbit/s SC ports | |
| ● for multimode | 8 |
| **interfaces / other** | |
| number of electrical connections | |
| ● for operator console | 1 |
| ● for signaling contact | 1 |
| ● for media module | 4 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● for operator console | RJ11 |
| ● for signaling contact | 2-pole terminal block |
| ● for power supply | 4-pole terminal block |
| design of the removable storage | |
| ● C-PLUG | Yes |
| operating voltage / of the signaling contacts | |
| ● at DC / rated value | 24 V |
| operational current / of the signaling contacts | |
| ● at DC / maximum | 0.1 A |
| **supply voltage, current consumption, power loss** | |
| type of voltage supply / redundant power supply unit | No |
| **type of voltage / 1 / of the supply voltage** | DC |
| ● supply voltage / 1 / rated value | 24 V |
| ● power loss [W] / 1 / rated value | 40 W |
| ● supply voltage / 1 / voltage range | 19.2 ... 57.6 |
| ● consumed current / 1 / maximum | 1.6 A |
| ● type of electrical connection / 1 / for power supply | 4-pole terminal block |
| ● product component / 1 / fusing at power supply input | Yes |
| ● fuse protection type / 1 / at input for supply voltage | T2H / 250 V |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +70 °C |
| ● during storage | -40 ... +85 °C |
| ● during transport | -40 ... +85 °C |
| ● note | Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C) |
| relative humidity | |


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| | |
|---|---|
| ● at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| **design, dimensions and weights** | |
| design | 19-inch rack |
| number of modular height units / relating to 19-inch cabinet | 1 |
| width | 483 mm |
| height | 44 mm |
| depth | 305 mm |
| net weight | 6.5 kg |
| fastening method | When used in shipbuilding, the device must be secured in the 19" rack at four points |
| ● 19-inch installation | Yes |
| ● 35 mm DIN-rail mounting | No |
| ● wall mounting | No |
| ● S7-300 rail mounting | No |
| ● S7-1500 rail mounting | No |
| **product features, product functions, product components / general** | |
| cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s | 100 |
| cascading in cases of star topology | any (depending only on signal propagation time) |
| **product functions / management, configuration, engineering** | |
| product function | |
| ● CLI | Yes |
| ● web-based management | Yes |
| ● MIB support | Yes |
| ● TRAPs via email | Yes |
| ● configuration with STEP 7 | Yes |
| ● RMON | Yes |
| ● port mirroring | Yes |
| ● multiport mirroring | Yes |
| ● CoS | Yes |
| ● PROFINET IO diagnosis | Yes |
| ● switch-managed | Yes |
| PROFINET conformity class | B |
| protocol / is supported | |
| ● Telnet | Yes |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● TFTP | Yes |
| ● FTP | Yes |
| ● BOOTP | Yes |
| ● GMRP | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| ● SNMP v1 | Yes |
| ● SNMP v2 | Yes |
| ● SNMP v3 | Yes |
| ● IGMP (snooping/querier) | Yes |
| identification & maintenance function | |
| ● I&M0 - device-specific information | Yes |
| ● I&M1 - higher level designation/location designation | Yes |
| **product functions / diagnostics** | |
| product function | |
| ● port diagnostics | Yes |
| ● statistics Packet Size | Yes |
| ● statistics packet type | Yes |
| ● error statistics | Yes |
| ● SysLog | Yes |


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| **product functions / VLAN** | |
| product function | |
| ● VLAN - port based | Yes |
| ● VLAN - protocol-based | No |
| ● VLAN - IP-based | No |
| ● VLAN dynamic | Yes |
| number of VLANs / maximum | 255 |
| number of VLANs - dynamic / maximum | 255 |
| **product functions / DHCP** | |
| product function | |
| ● DHCP client | Yes |
| ● DHCP Option 82 | Yes |
| ● DHCP Option 66 | Yes |
| ● DHCP Option 67 | Yes |
| **product functions / redundancy** | |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product function | |
| ● media redundancy protocol (MRP) with redundancy manager | Yes |
| ● ring redundancy | Yes |
| ● high speed redundancy protocol (HRP) with redundancy manager | Yes |
| ● high speed redundancy protocol (HRP) with standby redundancy | Yes |
| ● redundancy procedure STP | Yes |
| ● redundancy procedure RSTP | Yes |
| ● redundancy procedure MSTP | Yes |
| ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| ● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| ● passive listening | Yes |
| protocol / is supported | |
| ● STP/RSTP | Yes |
| ● STP | Yes |
| ● RSTP | Yes |
| ● MSTP | Yes |
| ● RSTP big network support | Yes |
| ● LACP | Yes |
| **product functions / security** | |
| product function | |
| ● IEEE 802.1x (radius) | Yes |
| ● broadcast/multicast/unicast limiter | Yes |
| ● broadcast blocking | Yes |
| protocol / is supported | |
| ● SSH | Yes |
| **product functions / time** | |
| product function | |
| ● SICLOCK support | Yes |
| protocol / is supported | |
| ● NTP | Yes |
| ● SNTP | Yes |
| ● IEEE 1588 profile default | Yes |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UKCA marking | Yes |
| ● KC approval | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| standard | |


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|---|---|
| ● for EMC | IEC 61850, IEEE 1613 |
| ● for EMC interference emission | EN 61000-6-4:2007 (Class A) |
| ● for immunity to EMC | EN 61000-6-2:2005 |
| ● for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1-03 |
| **standards, specifications, approvals / hazardous environments** | |
| certificate of suitability | |
| ● ATEX | Yes |
| ● UKEX | Yes |
| ● IECEx | Yes |
| ● ULhazloc approval | Yes |
| ● CCC / for hazardous zone according to GB standard | Yes |
| ● FM registration | Yes |
| **standards, specifications, approvals / other** | |
| certificate of suitability | |
| ● IEC 61850-3 | Yes |
| ● RoHS conformity | Yes |
| resistance to air pollution / conformity according to ANSI/ISA-71.04 | Yes; G3 |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 1235.23 kg |
| ● during manufacturing | 132 kg |
| ● during operation | 1102.64 kg |
| ● after end of life | 0.59 kg |
| **product functions / general** | |
| MTBF | 15 a |
| warranty period | 5 a |
| **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** | |
| 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 | 132 kg |
| ● global warming potential [CO2 eq] / during operation | 1102.64 kg |
| ● global warming potential [CO2 eq] / after end of life | 0.59 kg |
| ● global warming potential [CO2 eq] / total | 1235.23 kg |


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| Environment | General Product Approval | | | | |
|---|---|---|---|---|---|
| EPD | CE EG-Konf. | Declaration of Conformity | EAC | RCM | CE EG-Konf. |

| General Product Approval | | EMV | For use in hazardous locations | | |
|---|---|---|---|---|---|
| China RoHS | UKCA | KC | IECEx IECEx | Ex ATEX | FM |

| For use in hazardous locations | Test Certificates | Maritime application | | | |
|---|---|---|---|---|---|
| CCC-Ex | Type Test Certificates/Test Report | ABS | BUREAU VERITAS | DNV DNV | Lloyd's Register LRS |

| Maritime application | |
|---|---|
| NK / Nippon Kaiji Kyokai | RINA |

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