# SIEMENS

**Data sheet**                                                    **6GK5324-4GG10-2ER2**

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 2x 24 V DC; Ports in the front



Figure similar

| product type designation | SCALANCE XR324-4M EEC |
|---|---|
| **transfer rate** | |
| transfer rate | 10 Mbit/s, 100 Mbit/s, 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 |
| number of 1000 Mbit/s LC ports | |
| ● for multimode | 8 |
| ● for single mode (LD) | 8 |
| **interfaces / other** | |
| number of electrical connections | |
| ● for operator console | 1 |
| ● for signaling contact | 1 |
| ● for media module | 4 |
| ● for power supply | 2 |
| type of electrical connection | |
| ● for operator console | RJ11 |
| ● for signaling contact | 2 x 2-pole terminal block |
| ● for power supply | 2 x 4-pole terminal block |
| design of the removable storage | |
| ● C-PLUG | Yes |
| **signal inputs/outputs** | |
| 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 | Yes |
| **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 / rated value | 19.2 ... 57.6 V |

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| | |
|---|---|
| ● consumed current / 1 / maximum | 1.6 A |
| ● type of electrical connection / 1 / for power supply | 2 x 4-pole terminal block |
| ● product component / 1 / fusing at power supply input | Yes |

## 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 | |
| ● at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |

## design, dimensions and weights

| | |
|---|---|
| design | 19" rack |
| number of modular height units / relating to 19-inch cabinet | 1 |
| width | 483 mm |
| height | 44 mm |
| depth | 305 mm |
| net weight | 6.8 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 top hat 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 |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| 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 |
| **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 |
| protocol / is supported / GVRP | Yes |
| **product functions / DHCP** | |
| product function | |
| ● DHCP client | Yes |
| ● DHCP Option 82 | Yes |
| ● DHCP Option 66 | Yes |
| ● DHCP Option 67 | Yes |
| **product functions / redundancy** | |
| product function | |
| ● ring redundancy | Yes |
| ● High Speed Redundancy Protocol (HRP) | Yes |
| ● high speed redundancy protocol (HRP) with redundancy manager | Yes |
| ● high speed redundancy protocol (HRP) with standby redundancy | Yes |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product function | |
| ● media redundancy protocol (MRP) with redundancy manager | 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 | |
| ● ACL - MAC-based | Yes |

| | |
|---|---|
| ● ACL - port/MAC-based | Yes |
| ● 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

| | |
|---|---|
| standard | |
| ● for FM | FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 |
| ● for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1-03 |
| ● for emitted interference | EN 61000-6-4:2007 (Class A) |
| ● for interference immunity | EN 61000-6-2:2005 |
| MTBF | 20 y |

## standards, specifications, approvals / CE

| | |
|---|---|
| certificate of suitability / CE marking | Yes |
| standard | |
| ● for EMC | IEC 61850, IEEE 1613 |

## standards, specifications, approvals / hazardous environments

| | |
|---|---|
| standard / for hazardous zone | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X |
| ● from CSA and UL | ANSI / ISA 12.12.01, CSA C22.2 No. 142-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4 |
| certificate of suitability | |
| ● CCC / for hazardous zone according to GB standard | Yes |

## standards, specifications, approvals / other

| | |
|---|---|
| certificate of suitability | EN 61000-6-2:2005, EN 61000-6-4:2007 |
| ● C-Tick | Yes |
| ● KC approval | Yes |
| ● IEC 61850-3 | Yes |

## standards, specifications, approvals / marine classification

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|---|---|
| Marine classification association | |
| ● French marine classification society (BV) | Yes |
| ● Korean Register of Shipping (KRS) | Yes |

## further information / internet-Links

| | |
|---|---|
| Internet-Link | |
| ● to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| ● to website: Industrial communication | http://www.siemens.com/simatic-net |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| ● to website: Image database | http://automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | http://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 security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial |

security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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