# SIEMENS

| Data sheet | 6GK5216-4GS00-2FC2 |
|---|---|

SCALANCE XC216-4C G EEC managed Layer 2 IE switch; IEC 62443-4-2 certified; Full Gigabit; 12x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps/ SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; with painted printed circuit boards NAMUR NE21-compliant; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall; redundancy functions; Office features (RSTP, VLAN,…); PROFINET IO device; Ethernet/IP-compliant;

| product type designation | |
|---|---|
| product brand name | SCALANCE |
| product type designation | XC216-4C G 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 10/100/1000 Mbit/s RJ45 ports | 16 |
| number of combo ports / with RJ45 interface for optical plug-in transceiver | 4; 1000 MBit/s SFPs |
| **interfaces / for communication / plug-in** | |
| number of electrical connections | |
| ● for SFP | 4 |
| **interfaces / other** | |
| number of electrical connections | |
| ● for operator console | 1 |
| ● for signaling contact | 1 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● for operator console | RJ11 |
| ● for signaling contact | 2-pole terminal block |
| ● for power supply | 3-pole terminal block, permanently installed |
| design of the removable storage | |
| ● C-PLUG | Yes |
| operating voltage / of the signaling contacts | |
| ● at DC / rated value | 24 V |
| **supply voltage, current consumption, power loss** | |
| product component / connection for redundant voltage supply | Yes |
| **type of voltage / 1 / of the supply voltage** | DC |
| ● supply voltage / 1 / rated value | 24 V |
| ● power loss [W] / 1 / rated value | 13.2 W |
| ● supply voltage / 1 / rated value | 9.6 ... 31.2 V |
| ● consumed current / 1 / maximum | 0.55 A |
| ● type of electrical connection / 1 / for power supply | 3-pole terminal block, permanently installed |
| ● product component / 1 / fusing at power supply input | Yes |
| ● fuse protection type / 1 / at input for supply voltage | 3.15 A / 125 V |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +70 °C |

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| | |
|---|---|
| ● during storage | -40 ... +85 °C |
| ● during transport | -40 ... +85 °C |
| relative humidity | |
| ● at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |

| design, dimensions and weights | |
|---|---|
| design | compact |
| width | 140 mm |
| height | 150 mm |
| depth | 125 mm |
| net weight | 1.2 kg |
| product feature / conformal coating | Yes |
| material / of the enclosure | Polycarbonate (PC-GF10) / pressure die cast aluminum |
| fastening method | |
| ● 35 mm DIN-rail mounting | Yes |
| ● wall mounting | No |
| ● S7-300 rail mounting | Yes |
| ● S7-1500 rail mounting | Yes |

| product features, product functions, product components / general | |
|---|---|
| cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s | 50 |
| cascading in cases of star topology | any (depending only on signal propagation time) |
| product function | |
| ● QoS according to DSCP | Yes |
| product feature | |
| ● Cut Through switching method | No |
| ● Store & Forward switching method | Yes |

| 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 |
| ● SMTP server | No |
| ● port mirroring | Yes |
| ● multiport mirroring | Yes |
| ● CoS | Yes |
| ● PROFINET IO diagnosis | Yes |
| ● switch-managed | Yes |
| PROFINET conformity class | B |
| network load class / according to PROFINET | 3 |
| telegram length / for Ethernet / maximum | 10240 byte |
| protocol / is supported | |
| ● Telnet | Yes |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● TFTP | Yes |
| ● SFTP | Yes |
| ● BOOTP | No |
| ● GMRP | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| ● EtherNet/IP | 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 |
| number of VLANs / maximum | 257 |
| number of VLANs - dynamic / maximum | 257 |
| number of VLANs / at ring redundancy (HRP; MRP; standby link) | 257 |
| **product functions / DHCP** | |
| product function | |
| ● DHCP server | Yes |
| ● 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 |
| ● Media Redundancy Protocol Interconnection (MRP-I) | Yes |
| ● of the PROFINET IO device / is supported / H-Sync forwarding | Yes |
| ● of the PROFINET IO device / is supported / PROFINET system redundancy | 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 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 | |
| ● LACP | Yes |
| **system modification during operation** | |
| product function / configuration in RUN via CiR/H-CiR | Yes |
| **product functions / security** | |
| product function | |
| ● IEEE 802.1x (radius) | Yes |
| ● RADIUS client | Yes |
| ● broadcast/multicast/unicast limiter | Yes |
| ● broadcast blocking | Yes |
| protocol / is supported | |
| ● SSH | Yes |
| ● SSL | Yes |
| **product functions / time** | |

| product function | |
|---|---|
| ● SICLOCK support | Yes |
| ● NTP-client | Yes |
| ● SNTP client | Yes |
| protocol / is supported | |
| ● NTP | Yes |
| ● SNTP | Yes |

## standards, specifications, approvals

| certificate of suitability | |
|---|---|
| ● CE marking | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| product conformity / according to EMC-guideline | 2014/30/EU |
| standard | |
| ● for EMC interference emission | EN 61000-6-4, EN 50121-4 |
| ● for immunity to EMC | EN 61000-6-2, EN 50121-4 |
| ● for safety / from CSA and UL | UL 60950-1 E115352, UL-61010-2 E85972 |

## 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 | |
|---|---|
| ● railway application in accordance with EN 50121-4 | Yes |
| ● RoHS conformity | Yes |
| resistance to air pollution / conformity according to ANSI/ISA-71.04 | Yes; G3 |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes |

## standards, specifications, approvals / marine classification

| Marine classification association | |
|---|---|
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | Yes |
| ● Chinese Classification Society (CCS) | Yes |
| ● DNV GL | Yes |
| ● Korean Register of Shipping (KRS) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (NK) | Yes |
| ● Polski Rejestr Statkow (PRS) | Yes |
| ● Royal Institution of Naval Architects (RINA) | Yes |

## standards, specifications, approvals / Environmental Product Declaration

| Environmental Product Declaration | Yes |
|---|---|
| global warming potential [CO2 eq] | |
| ● total | 339.9 kg |
| ● during manufacturing | 57.33 kg |
| ● during operation | 281.79 kg |
| ● after end of life | 0.76 kg |

## product functions / general

| MTBF | 46 a |
|---|---|
| reference code | |
| ● according to IEC 81346-2 | KF |
| ● according to IEC 81346-2:2019 | KFE |
| 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 |
| ● 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

### General Product Approval

| CE EG-Konf. | Declaration of Conformity | EAC | UKCA | UL | RCM |
|---|---|---|---|---|---|

| General Product Approval | EMV | For use in hazardous locations | | | |
|---|---|---|---|---|---|
| TÜV | KC | IECEx | ATEX | FM | CCC-Ex |

### Marine / Shipping

| ABS | BUREAU VERITAS | DNV | LRS | NK / Nippon Kaiji Kyokai | PRS |
|---|---|---|---|---|---|

| Marine / Shipping | | Environment | Industrial Communication |
|---|---|---|---|
| RINA | CCS (China Classification Society) | KR | EPD | PROFINET |

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|---|---|---|
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