# SIEMENS

Data sheet            6GK5216-4GS00-2AC2



SCALANCE XC216-4C G 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; 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; C-plug slot;

| product type designation | SCALANCE XC216-4C G |
| --- | --- |
| **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 / integrated | 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 | |

11/28/2020

| | |
|---|---|
| • 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 |

## signal inputs/outputs

| | |
|---|---|
| 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 |
| • consumed current / 1 / at rated supply voltage / maximum | 0.55 A |
| • supply voltage / 1 / rated value | 9.6 ... 31.2 V |
| • 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 |
| 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 |
| material / of the enclosure | Polycarbonate (PC-GF10) / pressure die cast aluminum |
| fastening method | |
| • 35 mm top hat 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 |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1632 byte |
| protocol / is supported | |
| • Telnet | Yes |
| • HTTP | Yes |
| • HTTPS | Yes |
| • TFTP | 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 |
| protocol / is supported / GVRP | Yes |

## 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

| product function | |
|---|---|
| • of the PROFINET IO device / is supported / PROFINET system redundancy | Yes |
| • 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 |
| • Media Redundancy Protocol Interconnection (MRP-I) | Yes |
| • of the PROFINET IO device / is supported / H-Sync forwarding | Yes |
| • redundancy procedure STP | Yes |

11/28/2020

| | |
|---|---|
| • 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 |

## product functions / security

| | |
|---|---|
| product function | |
| • IEEE 802.1x (radius) | 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 |

## system modification during operation

| | |
|---|---|
| product function / configuration in RUN via CiR/H-CiR | Yes |

## standards, specifications, approvals

| | |
|---|---|
| Security for industrial automation and control systems / acc. to IEC 62443-4-2:2019 | Yes |
| MTBF | 46 y |

## standards, specifications, approvals / CE

| | |
|---|---|
| certificate of suitability / CE marking | Yes |
| product conformity / according to EMC-guideline | 2014/30/EU |
| standard | |
| • for EMC interference emission | EN 61000-6-4, EN 50121-13 |
| • for immunity to EMC | EN 61000-6-2, EN 50121-13 |
| certificate of suitability / RoHS conformity | Yes; 2011/65/EU |
| **last modified:** | 11/26/2020 |