



SCALANCE XC216 manageable Layer 2 IE switch; IEC 62443-4-2 certified; 16X 10/100 Mbit/s RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

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| product type designation | SCALANCE XC216 |
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| interfaces / for communication / integrated | |
| number of electrical connections <ul style="list-style-type: none"> for network components or terminal equipment | 16; RJ45 |
| number of 10/100 Mbit/s RJ45 ports / integrated <ul style="list-style-type: none"> with securing collar | 16 |
| interfaces / other | |
| number of electrical connections <ul style="list-style-type: none"> for operator console for signaling contact for power supply | 1 1 1 |
| type of electrical connection <ul style="list-style-type: none"> for operator console for signaling contact for power supply | RJ11 2-pole terminal block 4-pole terminal block |
| design of the removable storage <ul style="list-style-type: none"> C-PLUG | Yes |
| signal inputs/outputs | |
| operating voltage / of the signaling contacts <ul style="list-style-type: none"> at DC / rated value | 24 V |
| operational current / of the signaling contacts <ul style="list-style-type: none"> at DC / maximum | 0.1 A |
| 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 | 6.6 W |
| consumed current / 1 / at rated supply voltage / maximum | 0.275 A |
| 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 | 4-pole terminal block |
| product component / 1 / fusing at power supply input | Yes |
| fuse protection type / 1 / at input for supply voltage | 2.5 A / 125 V |
| ambient conditions | |
| ambient temperature | |
| during operation | -40 ... +70 °C |
| during storage | -40 ... +85 °C |

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| <ul style="list-style-type: none"> during transport | -40 ... +85 °C |
| relative humidity <ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| design, dimensions and weights | |
| design | compact |
| width | 120 mm |
| height | 147 mm |
| depth | 125 mm |
| net weight | 0.8 kg |
| material / of the enclosure | Polycarbonate (PC-GF10) / pressure die cast aluminum |
| fastening method <ul style="list-style-type: none"> 35 mm top hat DIN rail mounting wall mounting S7-300 rail mounting S7-1500 rail mounting | Yes Yes Yes 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 <ul style="list-style-type: none"> Cut Through switching method Store & Forward switching method | No Yes |
| product functions / management, configuration, engineering | |
| product function <ul style="list-style-type: none"> CLI web-based management MIB support TRAPs via email configuration with STEP 7 RMON SMTP server port mirroring multiport mirroring CoS PROFINET IO diagnosis | Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1632 byte |
| protocol / is supported <ul style="list-style-type: none"> Telnet HTTP HTTPS TFTP BOOTP GMRP DCP LLDP EtherNet/IP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) | Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| identification & maintenance function <ul style="list-style-type: none"> I&M0 - device-specific information I&M1 – higher level designation/location designation | Yes Yes |
| product functions / diagnostics | |
| product function <ul style="list-style-type: none"> port diagnostics statistics Packet Size statistics packet type | Yes Yes Yes |

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| <ul style="list-style-type: none"> • error statistics | Yes |
| <ul style="list-style-type: none"> • SysLog | Yes |
| product functions / VLAN | |
| product function | |
| <ul style="list-style-type: none"> • VLAN - port based | Yes |
| <ul style="list-style-type: none"> • VLAN - protocol-based | No |
| <ul style="list-style-type: none"> • 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) | 35 |
| protocol / is supported / GVRP | Yes |
| product functions / DHCP | |
| product function | |
| <ul style="list-style-type: none"> • DHCP server | Yes |
| <ul style="list-style-type: none"> • DHCP client | Yes |
| <ul style="list-style-type: none"> • DHCP Option 82 | Yes |
| <ul style="list-style-type: none"> • DHCP Option 66 | Yes |
| <ul style="list-style-type: none"> • DHCP Option 67 | Yes |
| product functions / redundancy | |
| product function | |
| <ul style="list-style-type: none"> • of the PROFINET IO device / is supported / PROFINET system redundancy | Yes |
| <ul style="list-style-type: none"> • ring redundancy | Yes |
| <ul style="list-style-type: none"> • High Speed Redundancy Protocol (HRP) | Yes |
| <ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with redundancy manager | Yes |
| <ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with standby redundancy | Yes |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product function | |
| <ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager | Yes |
| <ul style="list-style-type: none"> • Media Redundancy Protocol Interconnection (MRP-I) | Yes |
| <ul style="list-style-type: none"> • of the PROFINET IO device / is supported / H-Sync forwarding | Yes |
| <ul style="list-style-type: none"> • redundancy procedure STP | Yes |
| <ul style="list-style-type: none"> • redundancy procedure RSTP | Yes |
| <ul style="list-style-type: none"> • redundancy procedure RSTP+ | Yes |
| <ul style="list-style-type: none"> • redundancy procedure MSTP | Yes |
| <ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| <ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| <ul style="list-style-type: none"> • passive listening | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • LACP | Yes |
| product functions / security | |
| product function | |
| <ul style="list-style-type: none"> • IEEE 802.1x (radius) | Yes |
| <ul style="list-style-type: none"> • broadcast/multicast/unicast limiter | Yes |
| <ul style="list-style-type: none"> • broadcast blocking | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • SSH | Yes |
| <ul style="list-style-type: none"> • SSL | Yes |
| product functions / time | |
| product function | |
| <ul style="list-style-type: none"> • SICLOCK support | Yes |
| <ul style="list-style-type: none"> • NTP-client | Yes |
| <ul style="list-style-type: none"> • SNTP client | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |

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| • SNTP | Yes |
| system modification during operation | |
| product function / configuration in RUN via CiR/H-CiR | Yes |
| standards, specifications, approvals | |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes |
| MTBF | 48 y |
| reference code | |
| • according to IEC 81346-2 | KF |
| • according to IEC 81346-2:2019 | KFE |
| standards, specifications, approvals / CE | |
| certificate of suitability / CE marking | Yes |
| product conformity / according to EMC-guideline standard | 2014/30/EU |
| • for EMC interference emission | EN 61000-6-4, EN 50121-4 |
| • for immunity to EMC | EN 61000-6-2, EN 50121-4 |
| certificate of suitability / RoHS conformity | Yes; 2011/65/EU |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability | |
| • ATEX | Yes; EN 60079-0, EN 60079-15 |
| • for ATEX / as marking | II 3 G Ex nA II T4 Gc |
| • for ATEX / as certificate | KEMA 07ATEX0145 X |
| • IECEx | Yes; IEC 60079-0, IEC 60079-15 |
| • for IECEx / as marking | Ex nA II T4 Gc |
| • for IECEx / as certificate | IECEx DEK 14.0025X |
| • CCC / for hazardous zone according to GB standard | Yes |
| • for cULus HazLoc / as marking | CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 |
| • for cULus HazLoc / as File Nr. | E240480 (NWHP, NWHP7) |
| • FM registration | Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004 |
| • for FM / as marking | CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C |
| • for FM / as certificate | FM16US0205X |
| standards, specifications, approvals / other | |
| certificate of suitability | |
| • railway application in accordance with EN 50121-4 | Yes |
| • Regulatory Compliance Mark (RCM) | Yes |
| • for UL 61010-2-201 / as File Nr. | E85972 (NRAQ, NRAQ7) |
| • for UL 60950-1 / as File Nr. | E115352 (NWGQ, NWGQ7) |
| • EAC approval | Yes |
| standards, specifications, approvals / marine classification | |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • French marine classification society (BV) | 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 |
| accessories | |
| product extension / optional / C-PLUG | 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

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