



SCALANCE X216, managed IE switch, 16x 10/100 Mbit/s RJ45 ports, LED diagnostics, error-signaling contact with set pushbutton, redundant power supply, PROFINET IO device, network management, redundancy manager integrated, incl. electron. manual on CD-ROM, C-PLUG optional.

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| product type designation | SCALANCE X216 |
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| interfaces / for communication / integrated | |
| number of electrical connections • for network components or terminal equipment | 16 |
| number of 10/100 Mbit/s RJ45 ports / integrated • with securing collar | 16 |
| interfaces / other | |
| number of electrical connections • for signaling contact • for power supply | 1 1 |
| type of electrical connection • for signaling contact • for power supply | 2-pole terminal block 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 | |
| product component / connection for redundant voltage supply | Yes |
| type of voltage / 1 / of the supply voltage • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input • fuse protection type / 1 / at input for supply voltage | DC 24 V 5.76 W 18 ... 32 V 0.24 A 4-pole terminal block Yes 1.1 A / 33 V |
| ambient conditions | |
| ambient temperature • during operation • during storage • during transport | -40 ... +60 °C -40 ... +70 °C -40 ... +70 °C |
| relative humidity • at 25 °C / without condensation / during operation / maximum | 95 % |

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| protection class IP | IP30 |
| design, dimensions and weights | |
| design | compact |
| width | 120 mm |
| height | 125 mm |
| depth | 124 mm |
| net weight | 1.2 kg |
| fastening method | |
| • 35 mm top hat DIN rail mounting | Yes |
| • wall mounting | Yes |
| • S7-300 rail mounting | Yes |
| • S7-1500 rail mounting | No |
| product features, product functions, product components / general | |
| cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$ | 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 |
| • port mirroring | Yes |
| • multipoint mirroring | No |
| • with IRT / PROFINET IO switch | No |
| • 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 | No |
| • DCP | Yes |
| • LLDP | Yes |
| • SNMP v1 | Yes |
| • SNMP v2 | Yes |
| • SNMP v3 | 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 |
| product functions / DHCP | |
| product function | |
| • DHCP client | 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 | No |

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| 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"> 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 |
| product functions / security | |
| protocol / is supported | |
| <ul style="list-style-type: none"> SSH | Yes |
| product functions / time | |
| product function | |
| <ul style="list-style-type: none"> SICLOCK support | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> NTP | No |
| <ul style="list-style-type: none"> SNTP | Yes |
| standards, specifications, approvals | |
| standard | |
| <ul style="list-style-type: none"> for FM | FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0205X |
| <ul style="list-style-type: none"> for emitted interference | EN 61000-6-4:2001 (Class A) |
| <ul style="list-style-type: none"> for interference immunity | EN 61000-6-2:2001 |
| MTBF | 52.07 a |
| reference code | |
| <ul style="list-style-type: none"> according to IEC 81346-2 | KF |
| <ul style="list-style-type: none"> according to IEC 81346-2:2019 | KFE |
| standards, specifications, approvals / CE | |
| certificate of suitability / CE marking | Yes |
| 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 |
| <ul style="list-style-type: none"> from CSA and UL | ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, Cl. 1 / div. 2 / GP. A, B, C, D T4, Cl. 1 / Zone 2 / GP. IIC, T4, E240480 |
| certificate of suitability | |
| <ul style="list-style-type: none"> CCC / for hazardous zone according to GB standard | Yes |
| <ul style="list-style-type: none"> CCC / for hazardous zone according to GB standard / as marking | Ex nA IIC T4 Gc |
| standards, specifications, approvals / other | |
| certificate of suitability | EN 61000-6-2:2001, EN 61000-6-4:2001 |
| <ul style="list-style-type: none"> C-Tick | Yes |
| <ul style="list-style-type: none"> KC approval | Yes |
| <ul style="list-style-type: none"> railway application in accordance with EN 50155 | No |
| <ul style="list-style-type: none"> railway application in accordance with EN 50124-1 | No |
| standards, specifications, approvals / marine classification | |
| Marine classification association | |
| <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| <ul style="list-style-type: none"> French marine classification society (BV) | Yes |
| <ul style="list-style-type: none"> Det Norske Veritas (DNV) | No |
| <ul style="list-style-type: none"> Germanische Lloyd (GL) | No |
| <ul style="list-style-type: none"> DNV GL | Yes |
| <ul style="list-style-type: none"> Lloyds Register of Shipping (LRS) | Yes |
| <ul style="list-style-type: none"> Nippon Kaiji Kyokai (NK) | Yes |
| <ul style="list-style-type: none"> Polski Rejestr Statkow (PRS) | Yes |
| <ul style="list-style-type: none"> Royal Institution of Naval Architects (RINA) | Yes |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| <ul style="list-style-type: none"> to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> to website: Information and Download Center | http://www.siemens.com/industry/infocenter |

- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

security information

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last modified:

5/27/2023 