SIEMENS

Data sheet

6GK5310-0BA10-2AA3



SCALANCE X310FE, managed plus IE switch, 10x 10/100 Mbit/s RJ45 ports, LED diagnostics, error-signaling contact with Select/set pushbutton, PROFINET IO Device, network management, integrated redundancy manager, Office features (RSTP, VLAN, IGMP,..) C-plug in scope of delivery .

| product type designation | SCALANCE X310FE |
|--|-----------------------|
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| interfaces / for communication / integrated | |
| number of electrical connections | |
| for network components or terminal equipment | 10 |
| number of 10/100 Mbit/s RJ45 ports / integrated | |
| with securing collar | 10 |
| interfaces / other | |
| number of electrical connections | |
| for signaling contact | 1 |
| for power supply | 1 |
| type of electrical connection | |
| for signaling contact | 2-pole terminal block |
| for power supply | 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 supply / redundant power supply unit | No |
| type of voltage / 1 / of the supply voltage | DC |
| supply voltage / 1 / rated value | 24 V |
| power loss [W] / 1 / rated value | 9.6 W |
| supply voltage / 1 / rated value | 18 32 V |
| consumed current / 1 / maximum | 0.4 A |
| type of electrical connection / 1 / for power supply | 4-pole terminal block |
| product component / 1 / fusing at power supply input | Yes |
| ambient conditions | |
| ambient temperature | |
| during operation | -40 +60 °C |
| during storage | -40 +70 °C |
| during transport | -40 +70 °C |
| relative humidity | |

| at 25 °C / without condensation / during operation / maximum | 95 % |
|--|---|
| protection class IP | IP30 |
| design, dimensions and weights | |
| design | compact |
| width | 120 mm |
| height | 125 mm |
| depth | 123 mm |
| net weight | 1.4 kg |
| fastening method | When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. |
| • 19-inch installation | No |
| 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 <\~0.3\~s | 100 |
| cascading in cases of star topology | any (depending only on signal propagation time) |
| product functions / management, configuration, engineeri | |
| 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 | |

| • VI AN port based | Voc |
|--|---|
| VLAN - port based | Yes |
| VLAN - protocol-based VLAN - IP-based | No No |
| VLAN - IP-based 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 Client DHCP Option 82 | Yes |
| DHCP Option 62 | Yes |
| DHCP Option 67 | Yes |
| product functions / redundancy | |
| | |
| product function | Yes |
| ring redundancy High Speed Redundancy Protocol (HPR) | |
| High Speed Redundancy Protocol (HRP) bith speed redundancy protocol (HRP) with | Yes |
| high speed redundancy protocol (HRP) with redundancy manager | Yes |
| • high speed redundancy protocol (HRP) with standby | Yes |
| redundancy | |
| 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 |
| 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 |
| • NTP • SNTP | Yes |
| IEEE 1588 profile default | No |
| standards, specifications, approvals | |
| | |
| standard | EM2611: Close 1 Division 2 Crown A. D. C. D. (T.) Olass 1 Tarra 0 |
| ● 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 |
| for emitted interference | EN 61000-6-4:2007 (Class A) |
| for interference immunity | EN 61000-6-2:2005 |
| MTBF | 40 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 |
| standards, specifications, approvals / hazardous environn | nents |
| standard / for hazardous zone | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 |
| • from CSA and UL | ATEX 0145X UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213- M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group 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 |
| railway application in accordance with EN 50155 | No |
| standards, specifications, approvals / marine classification | n |
| Marine classification association | |
| American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| French marine classification society (BV) | Yes |
| Det Norske Veritas (DNV) | No |
| Germanische Lloyd (GL) | No |
| • DNV GL | Yes |
| Korean Register of Shipping (KRS) | Yes |
| Polski Rejestr Statkow (PRS) | Yes |
| Royal Institution of Naval Architects (RINA) | No |
| 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 | |
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