# SIEMENS

**Data sheet** **6GK5205-3BF00-2AB2**



SCALANCE XB205-3LD managed layer 2 IE switch 5x 10/100 Mbit/s RJ45 ports 3x SM FO SC-port 1x console port, diagnostics LED redundant power supply; IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; DIN-rail mounting; default PROFINET.

| product type designation | SCALANCE XB205-3LD |
|---|---|
| **transfer rate** | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| number of ports / maximum | 8 |
| **interfaces / for communication / integrated** | |
| number of electrical connections | |
| ● for network components or terminal equipment | 5; RJ45 |
| number of 100 Mbit/s SC ports | |
| ● for single mode (LD) | 3 |
| **interfaces / other** | |
| number of electrical connections | |
| ● for operator console | 1 |
| ● for management purposes | 1 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● for operator console | RJ11 |
| ● for management purposes | RJ45 |
| **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 | 7 W |
| ● supply voltage / 1 / rated value | 19.2 ... 28.8 V |
| ● consumed current / 1 / maximum | 0.29 A |
| ● type of electrical connection / 1 / for power supply | 6-pole terminal block |
| ● product component / 1 / fusing at power supply input | Yes |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | 0 ... 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 | IP20 |
| **design, dimensions and weights** | |
| design | Box |
| width | 80 mm |

| | |
|---|---|
| height | 117 mm |
| depth | 109 mm |
| net weight | 0.35 kg |
| material / of the enclosure | Plastic |
| fastening method | |
| ● 35 mm top hat DIN 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 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 |
| ● port mirroring | Yes |
| ● multiport mirroring | No |
| ● CoS | Yes |
| ● PROFINET IO diagnosis | Yes |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1522 byte |
| protocol / is supported | |
| ● Telnet | Yes |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● TFTP | Yes |
| ● FTP | 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 |
| ● loopback diagnostics | Yes |

| **product functions / VLAN** | |
|---|---|
| product function | |
| ● VLAN - port based | Yes |

| **product functions / DHCP** | |
|---|---|
| product function | |
| ● DHCP client | Yes |

| **product functions / redundancy** | |
|---|---|
| product function | |
| ● ring redundancy | Yes |
| ● High Speed Redundancy Protocol (HRP) | Yes |

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| | |
|---|---|
| ● 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 |
| ● redundancy procedure STP | Yes |
| ● redundancy procedure RSTP | Yes |
| ● redundancy procedure RSTP+ | Yes |
| ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network | No |
| ● passive listening | Yes |
| protocol / is supported | |
| ● 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 |
| ● SSL | Yes |

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

| **standards, specifications, approvals** | |
|---|---|
| standard | |
| ● for FM | FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 |
| ● for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| ● for emitted interference | EN 61000-6-4 (Class A) |
| ● for interference immunity | EN 61000-6-2 |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes |
| 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 |
| certificate of suitability / RoHS conformity | Yes; 2011/65/EU |

| **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 |
| ● 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, T7 |
| certificate of suitability | |
| ● CCC / for hazardous zone according to GB standard | Yes |
| ● for cULus HazLoc / as File Nr. | E240480 (NWHP, NWHP7) |

| **standards, specifications, approvals / other** | |
|---|---|
| certificate of suitability | EN 61000-6-2, EN 61000-6-4 |
| ● C-Tick | Yes |

| | |
|---|---|
| ● KC approval | 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

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|---|---|
| security information | Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4) |

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