SIEMENS

## Data sheet 6GK5205-3BF00-2TB2



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 EtherNet/IP.

| | |
|---|---|
| **product type designation** | |
| product brand name | SCALANCE |
| product type designation | XB205-3LD |
| Technical Product Detail Page | https://i.siemens.com/1P6GK5205-3BF00-2TB2 |
| **transfer rate** | |
| transfer rate | 10, 100 Mbit/s |
| **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 power supply | 1 |
| **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 | 24 V |
| ● power loss [W] / 1 / rated value | 7 W |
| ● supply voltage / 1 / voltage range | 19.2 ... 28.8 |
| ● consumed current / 1 / maximum | 0.29 A |
| ● 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 | compact |
| width | 80 mm |
| height | 117 mm |
| depth | 109 mm |
| net weight | 0.35 kg |
| material / of the enclosure | Polycarbonate (PC-GF10) |


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| fastening method | |
| ● 35 mm 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 | Yes |
| ● CoS | Yes |
| ● PROFINET IO diagnosis | Yes |
| ● switch-managed | Yes |
| PROFINET conformity class | B |
| network load class / according to PROFINET | III |
| telegram length / for Ethernet / maximum | 1632 byte |
| protocol / is supported | |
| ● Telnet | Yes |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● TFTP | Yes |
| ● SFTP | 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 |
| number of VLANs / maximum | 257 |
| number of VLANs - dynamic / maximum | 257 |
| number of VLANs / at ring redundancy (HRP; MRP; standby link) | 257 |
| **product functions / DHCP** | |
| product function | |
| ● DHCP client | Yes |
| **product functions / redundancy** | |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| product function | |
| ● media redundancy protocol (MRP) with redundancy | Yes |


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| manager | |
| ● Media Redundancy Protocol Interconnection (MRP-I) | Yes |
| ● of the PROFINET IO device / is supported / PROFINET system redundancy | No |
| ● ring redundancy | Yes |
| ● high speed redundancy protocol (HRP) with redundancy manager | Yes |
| ● high speed redundancy protocol (HRP) with standby redundancy | Yes |
| ● redundancy procedure STP | Yes |
| ● redundancy procedure RSTP | Yes |
| ● redundancy procedure RSTP+ | Yes |
| ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| ● passive listening | Yes |
| **product functions / security** | |
| product function | |
| ● IEEE 802.1x (radius) | Yes |
| ● RADIUS client | 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** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● cULus approval | Yes |
| ● KC approval | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| standard | |
| ● for EMC interference emission | EN 61000-6-4 (Class A) |
| ● for immunity to EMC | EN 61000-6-2 |
| ● for safety / from CSA and UL | UL 60950-1 E115352, CSA C22.2 No. 60950-1 |
| **standards, specifications, approvals / hazardous environments** | |
| certificate of suitability | |
| ● ATEX | Yes |
| ● UKEX | Yes |
| ● IECEx | Yes |
| ● ULhazloc approval | Yes |
| ● CCC / for hazardous zone according to GB standard | Yes |
| ● FM registration | Yes |
| **standards, specifications, approvals / other** | |
| certificate of suitability | |
| ● RoHS conformity | Yes |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 260.76 kg |
| ● during manufacturing | 40.94 kg |
| ● during operation | 219.31 kg |


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|---|---|
| ● after end of life | 0.51 kg |
| **product functions / general** | |
| MTBF | 50 a |
| warranty period | 5 a |
| product function / is supported / identification link | Yes; acc. to IEC 61406-1:2022 |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

## Approvals / Certificates

### General Product Approval

CE EG-Konf. | Declaration of Conformity | CCC | EAC | China RoHS | UL

| General Product Approval | | | | EMV | For use in hazardous locations |
|---|---|---|---|---|---|
| Miscellaneous | Declaration of Conformity | RCM | TUEV | KC | IECEx |

| For use in hazardous locations | | | Environment | Industrial Communication |
|---|---|---|---|---|
| ATEX | FM | CCC-Ex | EPD | PROFINET |

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