# SIEMENS

**Data sheet** **6GK5205-3BD00-2TB2**

Product description

Preset for Ethernet/IP mode!
SCALANCE XB205-3 managed Layer 2 IE Switch 5x 10/100 Mbit/s
RJ45 ports 3x MM FO SC port 1x console port, diagnostics LED
redundant power supply; temp. range 0 °C to +60 °C; mounting onto
standard rail; Default EtherNet/IP



| Product type designation | SCALANCE XB205-3 |
|---|---|
| **Transmission rate** | |
| Transfer rate | 10 Mbit/s, 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 multimode | 3 |
| **Interfaces / others** | |
| Number of electrical connections | |
| • for operator console | 1 |
| • for management purposes | 1 |
| • for power supply | 1 |
| • for redundant voltage supply | 1 |
| Type of electrical connection | |
| • for operator console | RJ11 |
| • for management purposes | RJ45 |

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| | |
|---|---|
| • for power supply | 6-pole terminal block |

## Supply voltage, current consumption, power loss

| | |
|---|---|
| Type of voltage / of the supply voltage | DC |
| Supply voltage | |
| • external | 24 V |
| • external / minimum | 19.2 V |
| • external / maximum | 28.8 V |
| Product component / fusing at power supply input | Yes |
| Consumed current / maximum | 0.3 A |

## Permitted 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 weight

| | |
|---|---|
| Design | Box |
| Width | 80 mm |
| Height | 117 mm |
| Depth | 109 mm |
| Net weight | 0.35 kg |
| Material / of the enclosure | Plastic |
| Mounting type | |
| • 35 mm DIN rail mounting | Yes |
| • wall mounting | No |
| • S7-300 rail mounting | No |
| • S7-1500 rail mounting | No |

## Product properties, functions, 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

| | |
|---|---|
| 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 |
| • with IRT / PROFINET IO switch | No |
| • 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 |
| • BOOTP | No |
| • 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 / Diagnosis

| | |
|---|---|
| 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 |
| • VLAN - protocol-based | No |
| • VLAN - IP-based | No |
| • VLAN dynamic | No |

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| 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 |
| **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 | No |
| ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network | No |
| ● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| ● Passive listening | Yes |

| Product functions / Security | |
|---|---|
| **Product function** | |
| ● 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 |
| ● 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 |

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| | |
|---|---|
| ● for hazardous zone | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X |
| ● for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |
| ● for hazardous zone / 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, T5 |
| ● for emitted interference | EN 61000-6-4 (Class A) |
| ● for interference immunity | EN 61000-6-2 |

## Standards, specifications, approvals / CE

| | |
|---|---|
| Certificate of suitability / CE marking | Yes |

## Standards, specifications, approvals / miscellaneous

| | |
|---|---|
| Certificate of suitability | EN 61000-6-2, EN 61000-6-4 |
| ● C-Tick | Yes |
| ● Railway application in accordance with EN 50155 | No |
| ● Railway application in accordance with EN 50124-1 | No |
| ● KC approval | Yes |

## Further Information / Internet Links

| | |
|---|---|
| Internet-Link | |
| ● to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| ● 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 | 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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