

product description

Preset for PROFINET mode!

SCALANCE XB213-3LD managed Layer 2 IE Switch 13x IEC 62443-4-2 certified; 10/100 Mbps RJ45 ports, 3x SM FO SC port 1x console port, diagnostics LED, redundant power supply, temp. range 0 °C to +60 °C; attachment to DIN rail; default PROFINET



| | |
|--|-----------------------|
| product type designation | SCALANCE XB213-3LD |
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s |
| interfaces / for communication / integrated | |
| number of electrical connections | |
| • for network components or terminal equipment | 13; 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 |
| • for power supply | 6-pole terminal block |

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 | 9.6 W |
| • supply voltage / 1 / rated value | 19.2 ... 28.8 V |
| • consumed current / 1 / maximum | 0.4 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 | 120 mm |
| height | 117 mm |
| depth | 109 mm |
| net weight | 0.5 kg |
| material / of the enclosure | Plastic |
| fastening method | |
| • 35 mm top hat DIN rail mounting | Yes |
| • wall mounting | No |
| • S7-300 rail mounting | No |
| • 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 | 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 |
| • 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 / 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 |

- VLAN - protocol-based
- VLAN - IP-based
- VLAN dynamic

No
No
No

product functions / DHCP

product function

- DHCP client

Yes

product functions / redundancy

product function

- ring redundancy
- High Speed Redundancy Protocol (HRP)
- high speed redundancy protocol (HRP) with redundancy manager
- high speed redundancy protocol (HRP) with standby redundancy

Yes
Yes
Yes
Yes

protocol / is supported / Media Redundancy Protocol (MRP)

Yes

product function

- media redundancy protocol (MRP) with redundancy manager
- redundancy procedure STP
- redundancy procedure RSTP
- redundancy procedure RSTP+
- redundancy procedure MSTP
- Parallel Redundancy Protocol (PRP)/operation in the PRP-network
- Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)
- passive listening

Yes
Yes
Yes
Yes
No
Yes
No
Yes

product functions / security

product function

- IEEE 802.1x (radius)
- broadcast/multicast/unicast limiter
- broadcast blocking

Yes
Yes
Yes

protocol / is supported

- SSH

Yes

product functions / time

product function

- SICLOCK support

Yes

protocol / is supported

- NTP
- SNTP

Yes
Yes

standards, specifications, approvals

| | |
|---|---|
| standard | |
| • for FM | FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 |
| • 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, T11 |
| • for emitted interference | EN 61000-6-4 (Class A) |
| • for interference immunity | EN 61000-6-2 |
| Security for industrial automation and control systems / acc. to IEC 62443-4-2:2019 | Yes |

standards, specifications, approvals / CE

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

standards, specifications, approvals / other

| | |
|---|----------------------------|
| 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 TIA 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

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