

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 - for management purposes - for power supply	1 1 1
Type of electrical connection - for operator console - for management purposes - for power supply	RJ11 RJ45 6-pole terminal block

Supply voltage, current consumption, power loss

Type of voltage / 1 / of the supply voltage

- | | |
|------------------------------------|-----------------|
| • Supply voltage / 1 / Rated value | DC |
| • Power loss [W] / 1 / Rated value | 24 V |
| • Supply voltage / 1 / rated value | 9.6 W |
| | 19.2 ... 28.8 V |

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

Mounting type

- | | |
|---------------------------|-----|
| • 35 mm 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 $< \sim 0.3 \sim$ 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	No
• VLAN - IP-based	No
• VLAN dynamic	No

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	Yes
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	Yes
• 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, 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 • for emitted interference • for interference immunity	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 EN 61000-6-4 (Class A) 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 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	
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