

Product type designation
Product description

SCALANCE XB205-3
Preset for PROFINET mode!
SCALANCE XB205-3 MANAGEABLE LAYER 2 IE-SWITCH 5X
10/100 MBITS/S RJ45 PORTS 3X MM FO SC-PORT 1X CONSOLE
PORT DIAGNOSTICS-LED REDUNDANT POWER SUPPLY TEMP.-
RANGE 0 DGR C UP TO +60 DGR C; DIN RAIL MOUNTING
PROFINET IO-DEVICE ETHERNET/IP CERTIFICATE DEFAULT
PROFINET



Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces	
Number of electrical/optical connections <ul style="list-style-type: none">• for network components or terminal equipment / maximum	8
Type of electrical connection <ul style="list-style-type: none">• for network components or terminal equipment	RJ45 port
Number of optical interfaces <ul style="list-style-type: none">• for fiber optic cable / at 100 Mbit/s	3
Interfaces / for communication / integrated	
Number of electrical connections / for network components or terminal equipment	5
Number of 100 Mbit/s SC ports <ul style="list-style-type: none">• for multimode	0
Number of 1000 Mbit/s LC ports <ul style="list-style-type: none">• for multimode	0

- for single mode (LD)

0

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 port
• for management purposes	RJ45 port
• 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	19.2 ... 28.8 V
Product component / fusing at power supply input	Yes

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	96 %
Protection class IP	IP21

Design, dimensions and weight

Design	compact
Width	80 mm
Height	118 mm
Depth	110 mm
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 $< \sim 0.3 \text{ s}$	50
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Cascading in cases of star topology	any (depending only on signal propagation time)
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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
• 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
• IGMP (snooping/querier)	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

Product functions / Diagnosis

Product function	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes

- SysLog
- loopback diagnostics

Yes

Yes

Product functions / VLAN

Product function

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

Yes

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

No

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 MSTP
- Passive listening

Yes

Yes

Yes

Yes

Yes

Product functions / Security

Product function

- ACL - MAC-based
- IEEE 802.1x (radius)
- Broadcast/Multicast/Unicast Limiter
- broadcast blocking

Yes

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, T5
• 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. 60950-2
• 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 61000-6-3
Certificate of suitability	EN 61000-6-2, EN 61000-6-5
• CE marking	Yes
• C-Tick	Yes
• KC approval	Yes
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50124-1	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

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: 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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