



SCALANCE XB205-3 managed Layer 2 IE Switch 5x IEC 62443-4-2 certified; 10/100 Mbit/s RJ45 ports 3x MM 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	SCALANCE XB205-3
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
number of ports / maximum	8
interfaces / for communication / maximum configuration for modular devices	
number of electrical ports / maximum	5
number of optical ports / maximum	3
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 / 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	RJ11 RJ45
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 • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input	DC 24 V 7.2 W 19.2 ... 28.8 V 0.3 A 6-pole terminal block Yes
ambient conditions	
ambient temperature • during operation • during storage • during transport	0 ... 60 °C -40 ... +70 °C -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)
fastening method	Yes
• 35 mm top hat DIN rail mounting	Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{s}$	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
PROFINET conformity class	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	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
• loopback diagnostics	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

product function	
• of the PROFINET IO device / is supported / PROFINET system redundancy	No
• 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
• Media Redundancy Protocol Interconnection (MRP-I)	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
• passive listening	Yes
protocol / is supported	
• LACP	Yes

product functions / security

product function	
• ACL - MAC-based	Yes
• ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	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

standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM19US0167X
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	55 a
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE

standards, specifications, approvals / CE

certificate of suitability / CE marking	Yes
certificate of suitability / RoHS conformity	Yes; 2011/65/EU

standards, specifications, approvals / hazardous environments

standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• 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, E240480
certificate of suitability	
• CCC / for hazardous zone according to GB standard	Yes
• CCC / for hazardous zone according to GB standard / as	Ex nA IIC T4 Gc

marking

- for cULus HazLoc / as File Nr.

E240480 (NWHP, NWHP7)

standards, specifications, approvals / other

certificate of suitability

EN 61000-6-2, EN 61000-6-4

- C-Tick
- KC approval

Yes
Yes

further information / internet links

internet link

- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support









- <http://www.siemens.com/tia-selection-tool>
- <http://www.siemens.com/simatic-net>
- <https://mall.industry.siemens.com>
- <http://www.siemens.com/industry/infocenter>
- <http://automation.siemens.com/bilddb>
- <http://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval		EMC	For use in hazardous locations		
Manufacturer Declaration		Miscellaneous		ATEX-Zone 2-Declaration	
For use in hazardous locations			Declaration of Conformity		
FM	CCC-Ex				
Declaration of Conformity		other	Environment		
Manufacturer Declaration	Miscellaneous	PROFINET-Certification			

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