SIEMENS

Data sheet

6GK5205-3BF00-2AB2

Product description



Preset for PROFINET mode!

SCALANCE XB205-3LD managed Layer 2 IE Switch 5x 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 XB205-3LD	
Transfer rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	
Interfaces / for communication / Integrated		
Number of electrical connections		
• for network components or terminal equipment	5; 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	
Type of voltage / 1 / of the supply voltage	DC
 Supply voltage / 1 / Rated value 	24 V
Power loss [W] / 1 / Rated value	7 W
Supply voltage / 1 / rated value	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	95 %
operation / maximum	
Protection class IP	IP20
Design, dimensions and weights	
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 features, product functions, product compo	· ·
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)
Product functions / management, configuration, eng	gineering
Product function	V
• 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
Product function / switch-managed Telegram length / for Ethernet / maximum 1522 byte Protocol / is supported * Telnet * Teln	PROFINET IO diagnosis	Yes
Telegram length / for Ethernet / maximum	PROFINET conformity class	В
Protocol / is supported	Product function / switch-managed	Yes
• Telnet • HTTP • HTTP • HTTPS • HTTPS • TFTP • Yes • FTP • BOOTP • DCP • DCP • LLDP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M0 - device-specific information • Product function • Port diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics Product function • VLAN - protocol-based • VLAN - protocol-based • VLAN - Probased • VLAN - Product function • Product function • Product function • VLAN - Probased • VLAN - Probased • VLAN - Product function • Product functions / DHCP	Telegram length / for Ethernet / maximum	1522 byte
• HTTP Yes • HTTPS Yes • TFTP Yes • FTP Yes • BOOTP No • DCP Yes • LLDP Yes • LLDP Yes • EtherNet/IP Yes • SMMP v1 Yes • SMMP v2 Yes • SMMP v3 Yes • IGMP (snooping/querier) Yes • IdaM0 - device -specific information Yes • I&M0 - device -specific information Yes • I&M1 - higher-level designation/location Yes designation Yes Product functions / Diagnostics Product functions Yes • Statistics Packet Size Yes • Statistics Packet type Yes • Statistics Packet type Yes • SysLog Yes • Imort statistics Yes • SysLog Yes • Imort statistics Yes • SysLog Yes • Imort statistics Yes	Protocol / is supported	
• HTTPS • TFTP • TFTP • FTP • BOOTP • BOOTP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • I&MO - device-specific information • I&MO - device-specific information • I&M1 - higher-level designation/location designation Product functions • Port diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • Ioopback diagnostics Product function • VLAN - protocol-based • VLAN - protocol-based • VLAN - IP-based	• Telnet	Yes
• TFTP • FTP • FTP • FTP • FTP • BOOTP • DCP • DCP • LtDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnostics Product functions • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics Product functions / VLAN Product functions • VLAN - port based • VLAN - protocol-based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN operations / DHCP Product functions / DHCP Product functions / DHCP Product functions / DHCP Product functions / DHCP	• HTTP	Yes
• FTP • BOOTP • DCP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation • Product functions / Diagnostics Product functions / Diagnostics Product functions / Pes • Statistics packet Size • Statistics packet type • Error statistics • SysLog • Ioopback diagnostics • Yes • VLAN - port based • VLAN - protocol-based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic • VLAN operations / DHCP • Product functions / DHCP • Product functions / DHCP • Product functions	• HTTPS	Yes
BOOTP	• TFTP	Yes
	• FTP	Yes
■ LLDP ■ EtherNet/IP ■ SNMP v1 ■ SNMP v1 ■ SNMP v2 ■ SNMP v3 ■ IGMP (snooping/querier) Identification & maintenance function ■ I&M0 - device-specific information ■ I&M1 - higher-level designation/location designation Product functions / Diagnostics Product functions ■ Port diagnostics ■ Statistics Packet Size ■ Statistics Packet Vype ■ Error statistics ■ SysLog ■ loopback diagnostics ■ Yes ■ loopback diagnostics ■ Yes ■ Vyes ■ Improduct function / Vyes ■ Improduct function / Vyes ■ V	• BOOTP	No
EtherNet/IP SNMP v1 Yes SNMP v2 Yes SNMP v3 Yes IGMP (snooping/querier) Identification & maintenance function	• DCP	Yes
	• LLDP	Yes
◆ SNMP V2 Yes ◆ SNMP V3 Yes ◆ IGMP (snooping/querier) Yes Identification & maintenance function Yes ◆ I&M0 - device-specific information Yes ◆ I&M1 - higher-level designation/location designation Yes Product functions / Diagnostics Yes 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 No ◆ VLAN - IP-based No ◆ VLAN dynamic No Product functions / DHCP Product function No	• EtherNet/IP	Yes
SNMP v3 IGMP (snooping/querier) Ves Identification & maintenance function I & M0 - device-specific information I & M1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Firor statistics SysLog I oopback diagnostics SysLog I oopback diagnostics Product function Ves Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP Product functions / DHCP	• SNMP v1	Yes
IGMP (snooping/querier) Yes	• SNMP v2	Yes
Identification & maintenance function • I&M0 - device-specific information • I&M1 - higher-level designation/location designation Product functions / Diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics Product functions / VLAN Product functions / VLAN Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	• SNMP v3	Yes
I&M0 - device-specific information I&M1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	• IGMP (snooping/querier)	Yes
I&M1 – higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Error statistics SysLog loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP Product functions / DHCP	Identification & maintenance function	
Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP	 I&M0 - device-specific information 	Yes
Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Statistics packet type Firor statistics Syes SysLog I loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP	 I&M1 – higher-level designation/location 	Yes
Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Identify Identi	designation	
Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Identify Identi	Product functions / Diagnostics	
Statistics Packet Size Statistics packet type Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP	Product function	
Statistics packet type Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions	 Port diagnostics 	Yes
Error statistics SysLog loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions	 Statistics Packet Size 	Yes
SysLog loopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product function Product functions / DHCP	 Statistics packet type 	Yes
● loopback diagnostics 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	• Error statistics	Yes
Product functions / VLAN Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic Product functions / DHCP Product function	• SysLog	Yes
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP Product function	 loopback diagnostics 	Yes
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP Product function	Product functions / VLAN	
VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product function No		
VLAN - IP-based VLAN dynamic Product functions / DHCP Product function Product function	 VLAN - port based 	Yes
VLAN dynamic Product functions / DHCP Product function	VLAN - protocol-based	No
Product functions / DHCP Product function	• VLAN - IP-based	No
Product function	● VLAN dynamic	No
	Product functions / DHCP	
• DHCP client Yes	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 	No
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Product functions / Security	
Product function	v.
• 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
• 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

Security for industrial automation and control systems / acc. to IEC 62443-4-2:2019

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, T7

EN 61000-6-2

EN 61000-6-4 (Class A)

Yes

Standards, specifications, approvals / CE

Certificate of suitability / CE marking

Yes

Standards, specifications, approvals / other

Certificate of suitability

• C-Tick

Railway application in accordance with EN

 Railway application in accordance with EN 50124-1

KC approval

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

Yes

No

No

Yes

Further information / Internet-Links

Internet-Link

• to website: Selector SIMATIC NET

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/snst

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

Security information

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http://support.automation.siemens.com. (V3.4)

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