# **SIEMENS**

## Data sheet

6GK5205-3BF00-2TB2

Product description



Preset for Ethernet/IP 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 EtherNet/IP

Product type designation	SCALANCE XB205-3LD
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	5; RJ45
Number of 100 Mbit/s SC ports	
• for single mode (LD)	3
Interfaces / other	
Number of electrical connections	
• for operator console	1
<ul><li>for management purposes</li></ul>	1
<ul><li>for power supply</li></ul>	1
Type of electrical connection	
• for operator console	RJ11
<ul><li>for management purposes</li></ul>	RJ45
• for power supply	6-pole terminal block

Supply voltage, current consumption, power loss	
Type of voltage / 1 / of the supply voltage	DC
<ul> <li>Supply voltage / 1 / Rated value</li> </ul>	24 V
<ul><li>Power loss [W] / 1 / Rated value</li></ul>	7 W
Supply voltage / 1 / rated value	19.2 28.8 V
Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	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
<ul><li>wall mounting</li></ul>	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	Voc
• CLI	Yes
<ul><li>web-based management</li></ul>	Yes
MIB support	Yes
TRAPs via email	Yes
<ul><li>Configuration with STEP 7</li></ul>	Yes
• RMON	Yes
<ul><li>Port mirroring</li></ul>	Yes
<ul><li>multiport mirroring</li></ul>	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 - protocol-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	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	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	<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	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	<ul> <li>Port diagnostics</li> </ul>	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	<ul> <li>Statistics Packet Size</li> </ul>	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	<ul> <li>Statistics packet type</li> </ul>	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	<ul> <li>loopback diagnostics</li> </ul>	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	<ul> <li>VLAN - port based</li> </ul>	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
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>redundancy procedure STP</li> </ul>	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	No
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	No
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Product functions / Security	
Product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
broadcast blocking	Yes
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
Standards, specifications, approvals	Yes
	Yes  FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
Standards, specifications, approvals Standard	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2,

• 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 61000-6-4 (Class A)

EN 61000-6-2

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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newsletter. For more information, visit

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