SIEMENS

Data sheet

6GK5205-3BD00-2TB2

product description



Preset for Ethernet/IP mode!

SCALANCE XB205-3 managed Layer 2 IE Switch 5x IEC 62443-4-2 certified; 10/100 Mbps 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; mounting onto standard rail; default EtherNet/IP

product type designation	SCALANCE XB205-3
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 multimode	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	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
 power loss [W] / 1 / rated value 	7.2 W
 supply voltage / 1 / rated value 	19.2 28.8 V
 consumed current / 1 / maximum 	0.3 A
 type of electrical connection / 1 / for power supply 	6-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
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

height 117 mm depth 100 mm ret weight 0.03 kg material / of the enclosure Plastic material / of the enclosure Plastic istaining method Ves • s3 mm top hat DN vall mounting No • 57.500 rall mounting No • 57.530 rall mounting No • 57.530 rall mounting No • 57.530 rall mounting No escending in the case of and rulp data general escending in the case of and rulp data general escending in the case of and rulp data general escending in the case of and rulp data general escending in the case of and rulp data general escending in the case of and rulp data type return data Yes • exit during on with STEP 7 Yes • exit during in with STEP 7 Yes • exit during in with minoring Yes • exit during in with stain angend Yes • exit during in with stain angend Yes • exit during in for Element / runsimum	width	80 mm
agen 00 mm orl weight 0.35 kg material / of the andocure Plastic Issening method Plastic issening method No • s7 min top hat DIN rail mounting No • s7 and in mounting No • s7 and and in mounting No • s7 and an mounting No • sector and mounting No • sector and mounting No • cascading in the case of a robundant mg r at robust general • cascading in cases of star topology may (depending only on signal propagation time) product function / management Yes • full support Yes • onfiguration with STEP 7 Yes • onfiguration with STEP 7 Yes • full for f1/ PROFINET I/O switch No • full for f1/ PROFINET I/O switch No • full for f1/ PROFI		
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cascading in the case of a redundant ring / at recondiguation time of -N-0.3-9.5 50 cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering may (depending only on signal propagation time) product functions Yes • Web-based management Yes • Web-based management Yes • Mill support Yes • TRAPs via email Yes • ordinguration with STEP 7 Yes • RNON Yes • any Informing No • configuration with STEP 7 Yes • multiport mirroring No • Cold Yes • any Informing class B product function / switch-managed Yes • Internet / maximum 1522 byte • FIP Yes • FITP Yes • FITP Yes • Elegrene // namaged Yes • FITP Yes • FITP Yes • BOOTP No • SOMP v1 Yes	-	
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cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering order function Yes • Web-based management Yes • Web-based management Yes • Web-based management Yes • Configuration with STEP 7 Yes • Configuration with STEP 7 Yes • RNON Yes • prot minroring No • Cosf Yes • multiport mirroring No • Cosf Yes • Min IRT / PROFINET IO switch No • Proteint function / switch-managed Yes product function / switch-managed Yes • FROFINET ID diagnosis Ps product function / switch-managed Yes • FITP Yes • Taileet Yes • HTTPS Yes • FITP Yes • BOOTP No • DCCP Yes • SMMP V1 Yes • SMMP V3 Yes		50
product functions Yes orclut Yes • CLI Yes • MB support Yes • ITRAPs via email Yes • cnofiguration with STEP 7 Yes • multiport mirroring Yes • multiport mirroring Yes • with IRT / PROFINET IO switch No • Coord function / switch-managed Yes • PROFINET IO diagnosis Yes • PROFINET IO diagnosis Yes • HITP Yes • HITP Yes • Filt FIP Yes • FIP Yes • Elegrain length for Eltheret / maximum 1922 byte • DOUP Yes • Elegradine function Yes • FifP Yes • SMMP v1 Yes • SMMP v2 Yes • SMMP v3 Yes		any (depending only on signal propagation time)
product function Yes • CLI Yes • web-based management Yes • MB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • RMON Yes • port minroring Yes • multiport mirroring Yes • outlingt mirroring Yes • product function / switch-managed Yes • telegram length / for Ethernet / maximum 1922 byte product function / switch-managed Yes • TEINE Yes • HTTPS Yes • HTTPS Yes • Ethernet / PP Yes • EtherNet /P Yes • LLDP Yes • LLDP Yes • SMMP v3 Yes • IdMato - device-specific information Yes • IdMator diagonstics Ye		
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• MIB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • RMON Yes • port mirroring Yes • multiport mirroring No • Cols 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 product function / switch-managed Yes • telegram length / for Ethernet / maximum 1522 byte protocol / is supported Yes • HTTP Yes • Elegram length / for Ethernet / maximum 1522 byte • TOOLO / Yes • HTTP Yes • HITP Yes • HITP Yes • Elegram length / for Ethernet / maximum Yes • Elegram length / for Ethernet / maximum Yes • SMIP v3 Yes • SMIP v1 Yes • SMIP v3 Yes • Identification & maintenance function Yes		
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protocol / is supported Yes • 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 • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • IGMP (snooping/querier) Yes • IGMT function Yes • opt diagnostics Yes • ot		
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product functions / VLAN product function VLAN - port based VLAN - protocol-based No		
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VLAN - port based Yes VLAN - protocol-based No	product functions / VLAN	
VLAN - protocol-based No	product function	
	 VLAN - port based 	Yes
VLAN - IP-based No	 VLAN - protocol-based 	No
	VLAN - IP-based	No

VLAN dynamic	No
product functions / DHCP	110
product function DHCP client 	Yes
	Tes
product functions / redundancy	
product function	N .
• 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 	Yes
redundancy	
protocol / is supported / Media Redundancy Protocol	Yes
(MRP) product function	
	Vee
 media redundancy protocol (MRP) with redundancy manager 	Yes
 redundancy procedure STP 	Yes
redundancy procedure CSTP	Yes
 redundancy procedure RSTP+ 	Yes
redundancy procedure NSTP	No
Parallel Redundancy Protocol (PRP)/operation in	No
the PRP-network	
 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, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP.
	IIC, T4
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
• for emitted interference	EN 61000-6-4 (Class A)
for interference immunity	EN 61000-6-2
IT security for industrial automation systems / according to	Yes
IEC 62443-4-2:2019	
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environn	nents
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
certificate of suitability	
 CCC / for hazardous zone according to GB standard 	Yes
CCC / for hazardous zone according to GB standard standards, specifications, approvals / other	Yes
standards, specifications, approvals / other	Yes EN 61000-6-2, EN 61000-6-4
č	
standards, specifications, approvals / other certificate of suitability	EN 61000-6-2, EN 61000-6-4

 railway application in accordance with EN 50155 	No
 railway application in accordance with EN 50124-1 	No
further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 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	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary

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to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about

product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)