SIEMENS

Data sheet

6GK5205-3BB00-2AB2

product description



Preset for PROFINET mode!

SCALANCE XB205-3 managed layer 2 IE switch 5x 10/100 Mbps RJ45 ports 3x MM FO ST 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 PROFINET

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 ST(BFOC) 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

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

design width height duph height duph log mm net veight not veight so wall mounting so wall features, product functions, product components / peneral cascading in the case of a set oppoly any (depending only on signal propagation time) product function wall wall wall wall wall wall wall wal	design, dimensions and weights	
Metal		Box
helight		80 mm
199 mm		
met weight		109 mm
material / of the enclosure festening method		0.35 kg
Tastening method 35 mm top hat DIN rail mounting Yes wall imounting No No S7-300 rail mounting S7-300 rail rail rail rail rail rail rail rail		
• x87-300 rail mounting • S7-1800 rail mounting • S7-1800 rail mounting • S7-1800 rail mounting No product fastures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3x-s cascading in cases of star topology product functions / management, configuration, engineering product function		
• x87-300 rail mounting • S7-1800 rail mounting • S7-1800 rail mounting • S7-1800 rail mounting No product fastures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3x-s cascading in cases of star topology product functions / management, configuration, engineering product function	35 mm top hat DIN rail mounting	Yes
• S7-1500 rail mounting product foatures, produc		No
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3/s-s cascading in cases of star topology cascading in cases of star topology product function • CLI • CLI • Yes • web-based management, configuration, engineering product function • CLI • web-based management • Yes • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • multiport mirroring • multiport mirroring • ROFINET IO diagnosis • Yes PROFINET IO diagnosis • Yes PROFINET conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported • HTTP • HTTP • HTTP • HTTP • Se • FTP • BOOTP • No • DUP • LLLDP • SMMP V3 • SMMP V4 • SMMP V5 • SMMP V5 • SMMP V5 • SMMP V6 • SMMP V6 • SMMP V7 • SMMP V8 • SMMP V8 • SMMP V9 • SM	S7-300 rail mounting	No
cascading in the case of a redundant ring / at reconfiguration time of <=0.37-ss = cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product function	S7-1500 rail mounting	No
reconfiguration time of <pre></pre>	product features, product functions, product components	/ general
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 • Milb support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • RIMON Yes • port mirroring 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 protocol / is supported • Telnet Yes • HTTP Yes • HTTP Yes • HTTP Yes • FTP • BOOTP No • DCP • LLDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • IGMP (snooping/querier) Yes identification & maintenance function • I&M O device-specific information • I&M O device-specific information • I&M O device-specific information • product function & maintenance function • I&M O device-specific information • port diagnostics • yes • statistics Packet Size • statistics Packet Size • statistics Packet Size • syslog • loopback diagnostics • Yes • Syslog • loopback diagnostics • Yes • Syslog • loopback diagnostics • Yes • loopback diagnostics • Yes • loopback diagnostics • Yes • Syslog • loopback diagnostics • Yes • loopback diagnostics		50
product functions / management, configuration, engineering product function CLI Web-based management Yes Milb support TRAPs via email configuration with STEP 7 RMON port mirroring Yes multiport mirroring COS With IRT / PROFINET IO switch PROFINET IO diagnosis PROFINET Conformity class product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported Telnet TITP TIT		any (depending only on signal propagation time)
product function • CLI • web-based management • MB support • MB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • PROFINET in diagnosis • PROFINET conformity dass • PROFINET conformity dass • PROFINET conformity dass • product function / switch-managed • telegram length / for Ethernet / maximum • TETP • TETP • TETP • TETP • HTTPS • TETP • FIP • BOOTP • DOCP • LLDP • LEHENNEUIP • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • (alsM1 – higher level designation/location designation • product functions / diagnostics • port diagnostics • port diagnostics • Profice of the control o		
CLI web-based management ✓ Yes ✓ Web-based management ✓ Yes ✓ TRAPs via email ✓ Yes ✓ Configuration with STEP 7 ✓ Yes ✓ RMON ✓ Pos ✓ PRONN ✓ Port mirroring ✓ Yes ✓ Profiled mirroring ✓ Yes ✓ With IRT / PROFINET IO switch ✓ PROFINET IO diagnosis ✓ Yes ✓ PROFINET Odiagnosis ✓ Yes ✓ PROFINET Conformity class ✓ PROFINET To Hamminum ✓ Yes ✓ PROFINET Conformity class ✓ PROFINET Conformity class ✓ PROFINET Conformity class ✓ Profice of Flamminum ✓ Yes ✓ Profice of Flamminum ✓ Profice of Flammi		
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	-	
		Yes
● CoS Yes ● with IRT / PROFINET IO switch No ● PROFINET Conformity class Yes PROFINET conformity class B product function / switch-managed Yes telegram length / for Ethernet / maximum 1522 byte protocol / is supported ** • Telnet Yes • HTTP Yes • HTTP Yes • TFTP Yes • TFTP Yes • BOOTP No • DCP Yes • LLDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • Identification & maintenance function • Identification & maintenance function • Identification & maintenance function Yes • Identification & maintenance function </td <td>• port mirroring</td> <td>Yes</td>	• port mirroring	Yes
		No
● PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes telegram length / for Ethernet / maximum 1522 byte protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • FTP Yes • BOOTP No • DCP Yes • LLDP Yes • EtherNet/IP Yes • SNMP v1 Yes • SNMP v2 Yes • ISMMP v3 Yes • IGMP (snooping/querier) Yes • Identification & maintenance function (i&M0 - device-specific information • I&M0 - device-specific information Yes • I&M1 - higher level designation/location designation Yes • root ct diagnostics Yes • statistics packet type Yes • statistics packet type Yes • root diagnostics Yes • sysLog Yes • oopback diagnostics Yes <		Yes
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telegram length / for Ethernet / maximum 1522 byte		В
Protocol / is supported Pes	•	Yes
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HTTPS TFTP Yes FTP Yes BOOTP No DCP Yes LLDP Yes EtherNet/IP SNMP v1 SNMP v2 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function	• Telnet	Yes
■ TFTP ■ FTP ■ PFTP ■ BOOTP ■ No ■ DCP ■ Yes ■ LLDP ■ Yes ■ EtherNet/IP ■ EtherNet/IP ■ 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 function ● port diagnostics ● statistics Packet Size ● statistics packet type ● error statistics ■ SysLog ● loopback diagnostics ▼es ● loopback diagnostics	• HTTP	Yes
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BOOTP DCP Yes LLDP Yes EtherNet/IP Yes SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function	• TFTP	Yes
	• FTP	Yes
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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 function port diagnostics statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics Yes Yes loopback diagnostics Yes Yes loopback diagnostics Yes Yes Ves Yes Yes Yes Yes Yes	EtherNet/IP	Yes
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 error statistics SysLog loopback diagnostics Yes Yes 	statistics Packet Size	Yes
SysLogloopback diagnosticsYes		Yes
• loopback diagnostics Yes		Yes
		Yes
product functions / VLAN		Yes
	product functions / VLAN	

product function		
product function • VLAN - port based	Yes	
VLAN - port based VLAN - protocol-based	No	
VLAN - protocol-based VLAN - IP-based	No	
VLAN dynamic	No	
product functions / DHCP	110	
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	Yes	
redundancy manager		
 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 RSTP+ 	Yes	
 redundancy procedure MSTP 	No	
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	No	
 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	FM00444 Olace 4 Divisor 0 October A. D. O. D./TA. Ol. 4. 7 0 OD	
• 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 for interference interpretable.	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	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
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, T6	
certificate of suitability		

 CCC / for hazardous zone according to GB standard 	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
 KC approval 	Yes
 railway application in accordance with EN 50155 	No
 railway application in accordance with EN 50124-1 	No
further information / internet-Links	

security information

security information

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