SIEMENS

Data sheet

6GK5213-3BB00-2TB2

product description



Preset for Ethernet/IP mode!

SCALANCE XB213-3 managed layer 2 IE switch 13x 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 EtherNet/IP

product type designation	SCALANCE XB213-3
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	13; 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	9.8 W
supply voltage / 1 / rated value	19.2 28.8 V
consumed current / 1 / maximum	0.41 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

Box	design, dimensions and weights	
Meight		Roy
March Marc	<u>`</u>	
Depth		
material / of the enclosure		
material / of the enclosure fastening method		
fastening method • 36 mm top hat DIN rail mounting No vali mounting No \$7.300 rail mounting All reconfiguration time of \$4.03.5		-
* 35 mm top hat DIN rall mounting * wall mounting * sol mounting * S7-1500 rail mounting * S7-1500 rail mounting * S7-1500 rail mounting * No * S7-1500 rail mounting * S0 * cascading in the case of a redundant ring / at reconfiguration rine of -(-0, -0) second reconfiguration rine of -(-0, -0) second rine product functions / management, configuration, engineering * Product function S7 management, configuration, engineering * Product function S7 management * Yes * Mills support * * Yes * Mills support * * * Yes * Mills support * * * * Yes * Mills support * * * * * Yes * * * * * * * * * * * * * * * * *	material / of the enclosure	Plastic
• x87-300 rail mounting • S7-300 rail mounting • S7-500 rail mounting • S7-500 rail mounting No product features, product functions, product components? general	fastening method	
S7-300 rail mounting S7-1500 rail mounting Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0,-0.3 s cascading in cases of star topology product functions / management, configuration, engineering Product function CLI Yes CLI Web-based management Ves **Mill support **TRAPs via email **Yes **Configuration with STEP 7 **RRANN **Port mirroring **Port mirroring **Port mirroring **Cos **With IRT / PROFINET IO switch **PROFINET conformity class **PROFINET conformity class **PROFINET conformity class **PROFINET conformity class **PROFINET on framing of the product function / switch-managed **Lelegram length / for Ethernet / maximum protocol / is supported **TETP **FTP **FTP **BOOTP **DROP **EILIDP **EILID	 35 mm top hat DIN rail mounting 	Yes
No Product fostures, product functions, product components / general	 wall mounting 	No
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <1-0.31-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • web-based management • Yes • Milb support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • cos • multiport mirroring • multiport mirroring • cos • with IRT / PROFINET IO switch • PROFINET IO diagnosis • product function / switch-managed telegram length / for Ethernet / maximum protocol / is supported • HTTP • HTTP • HTTP • HTTP • FTP • BOOTP • DOCP • Ves • SMMP v3 • SMMP v3 • SMMP v3 • SMMP v4 • SMMP v4 • SMMP v3 • SMMP v3 • SMMP v4 • SMMP v3 • SMMP v4 • SMMP v4 • SMMP v3 • SMMP v4 • SMMP v5 • SMMP v5 • SMMP v6 • SMMP v6 • SMMP v6 • SMMP v6 • SMMP v7 • SMMP v7 • SMMP v8 • SMMP v8 • SMMP v9	 S7-300 rail mounting 	No
cascading in the case of a redundant ring / at reconfiguration time of <1-0.31-5 cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product function CLI • Ves • Web-based management • CII • Web-based management • Ves • Configuration with STEP 7 • Ves • Web-based management • Ves • SMMP v1 • Ves • SMMP v1 • Ves • SMMP v2 • Ves • SMMP v3 • Ves • SMMP v3 • Ves • SMMP v4 • SMMP v5 • SMMP v5 • SMMP v5 • SMMP v5 • SMMP v6 • Web-based management • Ves • SMMP v6 • Web-based management • Ves • Satistitics packet type • Ves • Systog • Ves • Lopbased diagnostics • Ves • Lopbased diagnostics • Ves • Latistitics packet type • Lat	 S7-1500 rail mounting 	No
reconfiguration time of <-0.3/-s cascading in cases of star topology product functions / management, configuration, engineering product functions / management Yes	product features, product functions, product components	/ general
product functions / management, configuration, engineering product function CLI web-based management Yes Mills support TRAPs via email configuration with STEP 7 RMON port mirroring Yes multiport mirroring No 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 TELNET TELNET	cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
product function • CLI • CLI • Web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • COS • with IRT / PROFINET IO switch • PROFINET conformity class • PROFINET conformity class • PROFINET conformity class • PROFINET on formity class • PROFINET with managed • telegram length / for Ethemet / maximum • Telet • Telet • Telet • Telet • Telet • TEIP • TETP • TETP • TETP • BOOTP • BOOTP • DCP • LLDP • LEHENBEUTP • ETHENBEUTP • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Identification & maintenance function • I&M1 – device-specific information • I&M1 – higher level designation/location designation product functions / diagnostics • statistics Packet Size • statistics • statistics Packet Size • statistics • SysLog • loopback diagnostics • Yes • loopback diagnostics	cascading in cases of star topology	any (depending only on signal propagation time)
product function • CLI • CLI • Web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • COS • with IRT / PROFINET IO switch • PROFINET conformity class • PROFINET conformity class • PROFINET conformity class • PROFINET on formity class • PROFINET with managed • telegram length / for Ethemet / maximum • Telet • Telet • Telet • Telet • Telet • TEIP • TETP • TETP • TETP • BOOTP • BOOTP • DCP • LLDP • LEHENBEUTP • ETHENBEUTP • SNMP v1 • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Identification & maintenance function • I&M1 – device-specific information • I&M1 – higher level designation/location designation product functions / diagnostics • statistics Packet Size • statistics • statistics Packet Size • statistics • SysLog • loopback diagnostics • Yes • loopback diagnostics		
CLI web-based management Yes MIB support TRAPs via email configuration with STEP 7 Yes RMON port mirroring Port mirroring No Port mirroring No PROFINET IO dispossis PROFINET IO dispossis PROFINET Gordon Mitch-managed Yes telegram length / for Ethernet / maximum Telnet HTTP Telnet HTTP Yes TFIP Yes TFIP Yes SDOTP FTP SDOTP LLDP SDMP V1 SNMP V1 SNMP V1 SNMP V2 SNMP V2 SNMP V3 IGMP (snooping/querier) IdMP (snooping/querier) IdMP (snooping/querier) IdMP (snooping/querier) IdMP (snooping/augensics) Product functions / diagnostics Product functions / diagnostics Product functions Yes statistics packet type Product functions Yes statistics packet type Per or statistics SysLog SysLog SysLog Soluble Assertions Yes SSysLog Soluble Assertions Yes Selections / diagnostics Yes SysLog SysLog SysLog Soluble Assertions Yes SysLog Soluble Assertions Yes Soluble Assertions Yes Soluble Assertions Yes Soluble Assertions Yes SysLog Soluble Assertions Yes Solub		
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 ● port mirroring ● multiport mirroring ● CoS ● With IRT / PROFINET IO switch ● PROFINET Conformity class ● PROFINET Conformity class B product function / switch-managed ← telegram length / for Ethernet / maximum ← Telnet ← Telnet ← Telnet ← Telnet ← HTTP ← HTTP ← HTTP ← FTP ← BOOTP ← BOOTP ← BOOTP ← LLDP ← EtherNet/IP ← SNMP v1 ← SNMP v2 ← SNMP v2 ← SNMP v3 ← IGMP (snooping/querier) ← IdM1 – higher level designation/location designation ← port diagnostics ← statistics Packet Size ← sysLog ← loopback diagnostics ← Yes ← SysLog ← loopback diagnostics ← Yes ← SysLog ← loopback diagnostics ← Yes ← Good Post ← SysLog ← Loopback diagnostics ← Yes ← SysLog ← Loopback diagnostics 		
• 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 • HTTP • Telnet • HTTP • HTTP • Yes • HTTP • FTP • BOOTP • BOOTP • BOOTP • LLDP • EtherNet/IP • SNMP ∨1 • SNMP ∨2 • SNMP ∨2 • SNMP ∨3 • IGMP (snooping/querier) identification & maintenance function • 18 MM - device-specific information • 18 MM - device-specific information • 18 MM - diagnostics product function • port diagnostics product function • error statistics • Statistics Packet Size • statistics Packet Size • statistics • SySLog • loopback diagnostics		
with IRT / PROFINET IO switch		
● 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 • SMMP v1 Yes • SMMP v2 Yes • SMMP v3 Yes • I&MO - device-specific information Yes • I&MO - device-specific information Yes • I&MO - diagnostics Yes • statistics packet tyce Yes • statistics packet type Yes • ror statistics Yes • loopback diagnostics Yes		
PROFINET conformity class B		
product function / switch-managed telegram length / for Ethernet / maximum Telnet Telnet HTTP HTTP HTTP HTTPS FFP BOOTP BOOTP LLDP EtherNet/IP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&MO - device-specific information I&MO - device-specific information Forduct functions / diagnostics rorduct functions Porduct functions First Yes Statistics Packet Size Forduct function First Yes Statistics packet type Foreign Syston Foreign Swiss Forei		- 1
telegram length / for Ethernet / maximum		
Protocol / is supported	· · · · · · · · · · · · · · · · · · ·	Yes
• Telnet • HTTP • HTTPS • HTTPS • HTTPS • TFTP • FTP • FTP • FTP • BOOTP • BOOTP • DCP • LLDP • 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 function • port diagnostics product function • port diagnostics product function • port diagnostics product specific information • port diagnostics product function • port diagnostics product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • loopback diagnostics Yes • loopback diagnostics Yes	telegram length / for Ethernet / maximum	1522 byte
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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 ■ FTP ■ BOOTP ■ No ■ DCP ■ Yes ■ LLDP ■ Yes ■ 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 functions ● port diagnostics ● statistics Packet Size ● statistics packet type ● error statistics ● SysLog ● loopback diagnostics Yes ● Instance of the provided Head of the pr	• HTTP	Yes
FTP BOOTP No DCP Yes LLDP Yes EtherNet/IP Yes 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	• HTTPS	Yes
■ BOOTP ■ DCP ■ Yes ■ LLDP ■ 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 Yes ■ Yes ■ loopback diagnostics Yes ■ SysLog ■ Image: Application of the provided p	• TFTP	Yes
■ BOOTP ■ DCP ■ Yes ■ LLDP ■ 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 Yes ■ Yes ■ loopback diagnostics Yes ■ SysLog ■ Image: Application of the provided p	• FTP	Yes
		No
LLDP EtherNet/IP 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 function port diagnostics Statistics Packet Size Statistics packet type error statistics SysLog loopback diagnostics Yes Item Ves Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes Yes SysLog Item Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y		
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 function port diagnostics product function port diagnostics Statistics Packet Size Statistics packet type Ferror statistics SysLog Ioopback diagnostics Yes		
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I&M0 - device-specific information I&M1 - higher level designation/location designation product functions / diagnostics product function port diagnostics yes statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics Yes loopback diagnostics Yes	SNMP v2SNMP v3	Yes
I&M1 – higher level designation/location designation product functions / diagnostics product function	SNMP v2SNMP v3IGMP (snooping/querier)	Yes
product functions / diagnostics product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • loopback diagnostics Yes Yes Yes Yes Yes Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function	Yes Yes
product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • loopback diagnostics Yes Yes Yes Yes Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information	Yes Yes
 port diagnostics statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics Yes Yes Yes Yes Yes Yes	SNMP v2 SNMP v3 IGMP (snooping/querier) identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation	Yes Yes
 statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics Yes yes 	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	Yes Yes
 statistics packet type error statistics SysLog loopback diagnostics Yes Yes 	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	Yes Yes
 error statistics SysLog loopback diagnostics Yes Yes Yes 	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	Yes Yes Yes Yes Yes
SysLogloopback diagnosticsYes	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	Yes Yes Yes Yes Yes
• loopback diagnostics Yes	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	Yes Yes Yes Yes Yes Yes
• loopback diagnostics Yes	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 product function statistics Packet Size statistics packet type	Yes Yes Yes Yes Yes Yes Yes Yes
	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 product function	Yes
1010101118=10111810/1187-V1741V	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	Yes

and the first of the second	
product function	Voo
VLAN - port based VLAN - portage based	Yes
VLAN - protocol-based VLAN - ID based	No No
VLAN - IP-based VLAN dynamic	No No
VLAN dynamic Product functions / DUCP	No
product functions / DHCP	
product function • DHCP client	Voc
	Yes
product functions / redundancy	
product function	Yes
ring redundancy High Speed Redundancy Protectal (HPR)	Yes
 High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with 	Yes
redundancy manager	165
 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 	Yes
 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 IEC 62443-4-2:2019	Yes
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, T10
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	
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 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)

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