SIEMENS

Data sheet

6GK5208-0BA00-2TB2

Product description

Preset for Ethernet/IP mode! SCALANCE XB208 managed Layer 2 IE Switch 8x 10/100 Mbit/s RJ45 ports 1x console port, Diagnostics LEDs Redundant power supply temp. range 0 to +60 °C mounting onto standard rail; Default EtherNet/IP



Product type designation	SCALANCE XB208
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections	
• for network components or terminal equipment	8; RJ45
Interfaces / other	
Number of electrical connections	
• for operator console	1
• for management purposes	1
• for power supply	1
 for redundant voltage 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 / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	19.2 V
• external / maximum	28.8 V
Product component / fusing at power supply input	Yes
Consumed current / maximum	0.17 A

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	compact
Width	40 mm
Height	117 mm
Depth	109 mm
Net weight	0.25 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 components / general	
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, engineering Product function CLI web-based management MIB support TRAPs via email Configuration with STEP 7 RMON Port mirroring Yes Yes Yes Yes

• COS • with IRT / PROFINET IO switch • PROFINET IO diagnosis PROFINET IO diagnosis PROFINET IO diagnosis PROFINET Conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum 1522 byte Protocol / is supported **Telnet **Telnet **Telnet **Yes •*ITTP **Yes •*INDOPP **POPP **EtherNet/IP **Yes •*SMMP v1	 multiport mirroring 	No
PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Protocol / is supported Telegram length / for Ethernet / maximum 1522 byte Protocol / is supported Telnet Yes HTTP Yes HTTP Yes FIFP Yes FIFP BOOTP BOOTP BOOTP LILDP EtherNet/IP EtherNet/IP SMMP v1 SMMP v2 SMMP v3 IGMP (snooping/querier) Identification & maintenance function IsMO - device-specific information IsMM - digher-level designation/location designation Product functions / Diagnostics Product function Product function Product function Product functions Yes SysLog Ves Ves Ves Ves Ves Ves Ves Ve	• CoS	Yes
PROFINET conformity class Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported • Telnet • Telnet • Telnet • HTTP • Yes • HTTPS • Yes • TFTP • Yes • BOOTP • No • DCP • LLDP • LEherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (ancoping/querier) Identification & maintenance function • I&M1 – higher-level designation/location designation • Porduct functions / Diagnostics Product functions • Port diagnostics • Statistics Packet Size • SysLog • Icopback diagnostics • Yes • SysLog • Icopback diagnostics • Ves • VLAN - protocol-based • VLAN - Probased • VLAN - Probased • VLAN - Probased • VLAN - Probased • VLAN - Product function / DCP Product functions / DHCP	with IRT / PROFINET IO switch	No
Product function / switch-managed Yes	PROFINET IO diagnosis	Yes
Telegram length / for Ethernet / maximum Protocol / is supported Telnet Telnet HTTP HTTTP HTTTTP HTTTTP HTTTTP HTTTTP H	PROFINET conformity class	В
Protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • FTP • FTP • BOOTP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&MS - bigher-level designation/location designation Product functions / Diagnostics Product functions • Port diagnostics • Statistics packet type • Error statistics • SysLog • Ioopback diagnostics • Yes • SysLog • Ioopback diagnostics Product functions / VLAN Product function • VLAN - protococl-based • VLAN - protococl-based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic Product functions / DHCP	Product function / switch-managed	Yes
	Telegram length / for Ethernet / maximum	1522 byte
HITTP	Protocol / is supported	
HTTPS TETP TETP FTP BOOTP BOOTP COLOP COLOP COLOP EtherNet/IP SNMP v1 SNMP v2 SNMP v3 GOMP (snooping/querier) Identification & maintenance function Row (snooping/querier) Identification & maintenance function Row (snooping/querier) Ves Identification & maintenance function Row (snooping/querier) Product functions / Diagnostics Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics Packet Size Statistics packet type Error statistics SysLog loopback diagnostics Product functions / VLAN	• Telnet	Yes
• TFTP • FTP • FTP • FTP • BOOTP • DCP • DCP • 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&M1 - higher-level designation/location designation Product functions / Diagnostics 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 - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic Product functions / DHCP	• HTTP	Yes
FTTP BOOTP BOOTP DCP Yes LLDP EtherNet/IIP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Ves Identification & maintenance function IsM0 - device-specific information IsM0 - device-specific information Ves Identification & Test of the sum of the s	• HTTPS	Yes
BOOTP	• TFTP	Yes
DCP LLDP EtherNet/IP EtherNet/IP SNMP v1 SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Ves Identification & maintenance function Il&MO - device-specific information Il&MO - device-specific information Il&MO - device-specific information Ves IkMO - device-specific information Ves Statistics Packet Size Statistics Packet Size Statistics Packet Size Statistics packet type Ves Error statistics SysLog I loopback diagnostics Ves Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN dynamic Product functions / DHCP Product functions / DHCP	• FTP	Yes
• LLDP • Ether/Net/IP • Ether/Net/IP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&M - higher-level designation/location designation Product functions / Diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics Packet Size • Statistics packet type • Error statistics • SysLog • loopback diagnostics Product functions • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic Product functions / DHCP	• BOOTP	No
EtherNet/IP	• DCP	Yes
SMMP 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 Yes Statistics Packet Size Statistics Packet Size Statistics packet type Firor statistics SysLog Ioopback diagnostics Product functions / Ves	• LLDP	Yes
SNMP v2 SNMP v3 GSMP (snooping/querier) Identification & maintenance function IskM0 - device-specific information IskM1 - higher-level designation/location designation Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Error statistics SysLog Ioopback diagnostics SysLog Ioopback diagnostics Product function / Yes Product functions / Yes SysLog Ves	• EtherNet/IP	Yes
SNMP v3 IGMP (snooping/querier) Identification & maintenance function IBM0 - device-specific information IBM1 - higher-level designation/location designation Product functions / Diagnostics Product function Product function Statistics Packet Size Statistics packet type Statistics packet type Firor statistics SysLog Ioopback diagnostics Product functions / VLAN Product functions / VLAN Product functions / VLAN Product functions / VLAN Product function VLAN - protocol-based VLAN - protocol-based VLAN dynamic Product functions / DHCP	• SNMP v1	Yes
Identification & maintenance function Ilemtification Yes Il	• SNMP v2	Yes
Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location designation Product functions / Diagnostics Product function • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes • SysLog Yes • loopback diagnostics Yes Product functions / VLAN Product functions / VLAN Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No 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 Yes Statistics Packet Size Statistics packet type Error statistics SysLog loopback diagnostics Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic 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 Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN dynamic Product functions / DHCP Product functions / DHCP	Identification & maintenance function	
Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Firor statistics SysLog I loopback diagnostics Product functions / VLAN Product functions VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP	 I&M0 - device-specific information 	Yes
Product functions / Diagnostics Product function Port diagnostics Statistics Packet Size Statistics packet type Firor statistics SysLog I loopback diagnostics Product functions / VLAN Product functions VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP		Yes
Product function Port 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	designation	
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Statistics Packet Size 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 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	 Port diagnostics 	Yes
Error statistics SysLog Ioopback diagnostics Product functions / VLAN Product function VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP	Statistics Packet Size	Yes
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	 Statistics packet type 	Yes
 ◆ loopback diagnostics Yes Product functions / VLAN Product function ◆ VLAN - port based ◆ VLAN - protocol-based ◆ VLAN - IP-based ◆ VLAN dynamic Product functions / DHCP 	Error statistics	Yes
Product functions / VLAN Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP	SysLog	Yes
Product function • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No • VLAN dynamic No Product functions / DHCP	loopback diagnostics	Yes
 VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP 	Product functions / VLAN	
VLAN - protocol-based VLAN - IP-based VLAN dynamic Product functions / DHCP No		
VLAN - IP-based VLAN dynamic Product functions / DHCP No	VLAN - port based	Yes
VLAN dynamic Product functions / DHCP	 VLAN - protocol-based 	No
Product functions / DHCP	VLAN - IP-based	No
	● VLAN dynamic	No
Product function	Product functions / DHCP	
	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 	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 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, T4

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

 $\underline{\text{http://www.siemens.com/industry/infocenter}}$

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

Security information

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