SIEMENS

Data sheet



SCALANCE XB216 managed Layer 2 IE switch, 16X 10/100 Mbit/s RJ45 ports, 1x console port, diagnostics LED redundant power supply IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; DIN-rail mounting, PROFINET IO device Ethernet/IP certificate, default PROFINET.

product type designation	SCALANCE XB216
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
number of ports / maximum	16
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	16; RJ45
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
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	6.7 W
supply voltage / 1 / rated value	19.2 28.8 V
consumed current / 1 / maximum	0.28 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
width	80 mm
height	117 mm
depth	109 mm

net weight	0.4 kg
material / of the enclosure	Plastic
fastening method	
35 mm top hat DIN rail mounting	Yes
product features, product functions, product components	/ general
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineeri	ng
product function	
• CLI	Yes
 web-based management 	Yes
MIB support	Yes
TRAPs via email	Yes
configuration with STEP 7	Yes
• RMON	Yes
• port mirroring	Yes
 multiport mirroring 	No
• CoS	Yes
 PROFINET IO diagnosis 	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1522 byte
protocol / is supported	
Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher level designation/location designation 	Yes
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 function	
VLAN - port based	Yes
product functions / DHCP	
product function	
DHCP client	Yes
	160
product functions / redundancy	
product function	Voc
ring redundancy High Speed Redundancy Protectal (HPR)	Yes
High Speed Redundancy Protocol (HRP) High speed redundancy protocol (HRP) with	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby 	Yes
- riigh opeca readification protocol (riixi) with stallaby	100

protocy / is supported / Media Redundancy Protocol (MRP) product function - media Redundancy protocol (MRP) with redundancy manager - Media Redundancy procedure STP - edundancy procedure RSTP - edundancy procedure RSTP - Parallel Redundancy Protocol (PRP) operation in the PRP-Review of the PRP-	redundancy	
(MRP) product function	protocol / is supported / Media Redundancy Protocol	Yes
Media Redundancy Protocol Interconnection (MRP-) Media Redundancy Protocol Interconnection (MRP-) Media Redundancy Protocol Interconnection (MRP-) Media Redundancy procedure STP	(MRP)	
**Media Redundancy Protocol Interconnection (MRP-1) **edundancy procedure STP	product function	
redundancy procedure RSTP		Yes
eredundancy procedure RSTP	and the same of th	Yes
eredundancy procedure RSTP	 redundancy procedure STP 	Yes
redundancy procedure RSTP+ Parallel Redundancy Protocol (PRP)/operation in the PRP-network * passive listening protocol // is supported * LACP		Yes
Parallel Redundancy Protocol (PRP)/operation in the PRP-network passive listening protocol / is supported LCCP Product function ACL - MAC-based ACL - port/MAC-based ACL	 redundancy procedure RSTP+ 	Yes
protocol / is supported		No
• LACP Product functions / security product function • ACL - MAC-based Yes • ACL - Nort/MAC-based Yes • ACL - port/MAC-based Yes • ACL - port/MAC-based Yes • EEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • SSH Yes • SSL Yes • SSL Yes • SCLOCK support Yes • NTP-client Yes • SNTP Yes • SNTP Yes • SNTP Yes • SNTP Yes • STandards specifications, approvals • standard • for FM If (Jass 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 interference immunity EN 61000-6-2 • according to IEC 81346-2 KFE • according to IEC 81346-2 KF	passive listening	Yes
product functions / security product function	protocol / is supported	
product function ACL - MAC-based ACL - port/MAC-based ACL - port/MAC-based Yes - ACL - port/MAC-based - EEE 802.1x (radius) - broadcast/multicast/unicat limiter - broadcast blocking - yes - product functions / time - product functions / time - product function - SICLOCK support - SNTP - SNTP - SNTP - yes - Yes - SNTP - yes - SNTP - yes - Yes - SNTP - yes - Yes - SNTP - yes - Y	• LACP	Yes
• ACL - MAC-based • ACL - port/MAC-based • SER • broadcast/multicast/unicast limiter • broadcast blocking protocol / Is supported • SSH • SSL	product functions / security	
ACL - port/MAC-based IEEE 802 1x (radius) Pes broadcast blocking Protocol / is supported SSH SSL Yes Product function SICLOCK support NTP-client SNTP STRP Client SNTP Potent FMS611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 For emitted interference For interference immunity IT security for industrial automation systems / according to IEC 62443-22019 reference code according to IEC 81346-2 bright manufacture and the second according to Bright manufacture and the second according to Bright manufacture and the second according to GB standard Yes CCC / for hazardous zone according to GB standard Yes Curther information / internet-Links	product function	
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CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability		ATEX 0145X
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certificate of suitability • C-Tick • KC approval further information / internet-Links EN 61000-6-2, EN 61000-6-4 Yes Yes	from CSA and UL certificate of suitability	ATEX 0145X 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, T8
C-Tick KC approval further information / internet-Links Yes Yes	from CSA and UL certificate of suitability CCC / for hazardous zone according to GB standard	ATEX 0145X 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, T8
further information / internet-Links	from CSA and UL certificate of suitability	ATEX 0145X 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, T8 Yes
further information / internet-Links	from CSA and UL certificate of suitability	ATEX 0145X 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, T8 Yes EN 61000-6-2, EN 61000-6-4
	from CSA and UL certificate of suitability	ATEX 0145X 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, T8 Yes EN 61000-6-2, EN 61000-6-4 Yes
HINALINA LUIN	from CSA and UL certificate of suitability	ATEX 0145X 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, T8 Yes EN 61000-6-2, EN 61000-6-4 Yes

• to web page: selection aid TIA 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/simatic-net

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http://www.siemens.com/tia-selection-tool

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security information

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