6GK5216-0BA00-2TB2

Data sheet



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

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

rorboot / is supported / Media Redundancy Protocol (MRP) product function * media redundancy protocol (MRP) with redundancy manager * Media Redundancy Protocol Interconnection (MRP-)) * Media Redundancy procedure STP * edundancy procedure RSTP * Parallel Redundancy Protocol (PRP) operation in the PRP-Revork * passive listening * Protocol / is supported * LACP * LACP * LACP * Product function * ACL - MAC-based * Yes * Product function * ACL - MAC-based * Yes * Product function * ACL - MAC-based * Yes * Product function * ACL - MAC-based * Yes * Product function * SSH * SSH * SSH * Yes * SSH * Yes * Product function / The PRP-Revork * STHP * Product function / The PRP-Revork * NTP * In activity for industrial automation systems / according to ICC 024454-22 2019 * For FM * For Education of the Standard * Cordificate of suitability / Ces Denormly * ACL - portional for Standard * For FM * For Safety / from CSA and UL * For emitted interference * For interference immunity * Coording to ICC 03454-22019 * REE * according to ICC 03454-22019 * REE * according to ICC 03454-22019 * REE * according to ICC 03454-22019 * For CC 04454-22019 * REE * Conditional of suitability / Ces Conditional Systems / According to ICC 03454-22019 * For CC 04454-22019 * For CC 04454-22019 * REE * according to ICC 03454-22019 * REE * according to ICC 03454-22019 * REE * Conditional of suitability / Ces Conditional Systems / According to ICC 03454-22019 * For CC 04454-22019 * For CC 04454-22019 * FER CONDITIONAL STANDARD ST	redundancy	
product function	protocol / is supported / Media Redundancy Protocol	Yes
# media redundancy protocol (MRP) with redundancy manager	(MRP)	
**Media Redundancy Protocol Interconnection (MRP-1) **edundancy procedure STP **redundancy procedure RSTP **redundancy procedure RSTP **redundancy procedure RSTP **Pease Parallel Redundancy Protocol (PRP) operation in the PIPP-Montagory procedure RSTP+ **Peasellel Redundancy Protocol (PRP) operation in the PIPP-Montagory Protocol (PRP) operatio	product function	
redundancy procedure RSTP		Yes
eredundancy procedure RSTP		Yes
redundancy procedure RSTP+ Parallel Redundancy Protocol (PRP)operation in the PRP-network * passive listening protocol // is supported * LACP	redundancy procedure STP	Yes
Parallel Redundancy Protocol (PRP)/operation in the PRP-network passive listening protocol // is supported LCCP ACL - port/MAC-based ACL - MAC-based ACL - port/MAC-based	 redundancy procedure RSTP 	Yes
the PRP-network passive listering protocol / is supported • LACP • LACP product functions • ACL - MAC-based • ACL - MAC-based • ACL - port/MAC-based • EIEE 802.1x (radius) • broadcast mulicast imiter • broadcast blocking protocol / is supported • SSH • SSH • SSH • SSL product functions • SILC DCK support • SSH • SSL product functions • SILC DCK support • SNTP client • NTP-client • SNTP client • NTP-client • SNTP client • for FM • for safety / from CSA and UL • for emitted interference • for interference code • for interference conding to IEC 81346-2 • according to IEC 81346-2 •	redundancy procedure RSTP+	Yes
protocol / is supported		Yes
• LACP yes product functions / security product function • ACL - MAC-based	passive listening	Yes
product functions / security product function	protocol / is supported	
product function ACL - MACL-based ACL - MACL-based ACL - MAC-based Yes ACL - MAC-based Yes ACL - MAC-based Yes EEE 802 1x (radius) Yes broadcast functions / time protocol / is supported SSH SSL Yes Product function / time product function SICLOCK support NPC-lient SNTP Yes SNTP of the function / yes SNTP of the function / yes SNTP of the function / yes SNTP Yes STATE of the function / yes SNTP Yes **STP Yes	• LACP	Yes
• ACL - MAC-based • ACL - port/MAC-based • SER • broadcast/multicast/unicast limiter • broadcast blocking protocol / Is supported • SSH • SSL • Yes product functions / time product function • SICLOCK support • SITP client • SITP client • SNTP client • SNTP potent • SNTP yes standards, specifications, approvals standard • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 IT security for industrial automation systems / according to IEC 62443-4-2:2019 Standards, specifications, approvals / Experiments standard's, specifications, approvals / hazardous environments standard's, specifications, approvals / certificate of suitability • CCC / for hazardous zone according to GB standard Yes Ves Ves TEN 61000-6-2, EN 61000-6-4 Yes Yes Curtificate of suitability • CCC / for hazardous zone according to GB standard Yes Sundard's, specifications, approvals / other Certificate of suitability • CCC / for hazardous zone according to GB standard Yes Yes La for David Marcha / According to GB standard Yes Yes La for David Marcha / According to GB standard Yes Yes La for David Marcha / According to GB standard Yes Yes La for David Marc	product functions / security	
ACL - port/MAC-based IEEE 802-1x (radius) Producest functions / time Product function / time Product function SICLOCK support NTP-client SITP client SITP client FMS611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 IIC, T4 IIC, T4 Interference immunity IT security for industrial automation systems / according to IEC 62443-222019 reference code according to IEC 81346-22 according to IEC 81346-22019 reference code according to IEC 81346-22019 standards, specifications, approvals / FKE standards, specifications, approvals / FAE standards, specifications, approvals / FAE certificate of suitability / FKE standards, specifications, approvals / hazardous environments standard / for hazardous zone ATEX 0145X FM 61000-6-2, EN 61000-6-4 Yes Ves certificate of suitability EN 61000-6-2, EN 61000-6-4 Yes form CSA and UL CCC / for hazardous zone according to GB standard Yes further information / internet-Links	product function	
IEEE 802.1x (radius) Proadcast/multicast/unicast limiter Proadcast/multicast/unicast limiter Proadcast blocking Protocol / is supported SSH SSH SSL Yes Product functions / time Product functions / time Product functions ITEM Protocol / is supported SICLOCK support NTP-client Yes STP Client Yes Protocol / is supported SNTP STP Client Yes Protocol / is supported SNTP Yes **STP** **STP** **Yes **STP** **Yes **STP** **Yes **STP** **Indianal Symported **SNTP **SNTP** **SNTP **Indianal Symported	ACL - MAC-based	Yes
IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH SSH Yes SSL Yes product functions / time product functions / time product functions / time protocol / is supported SICLOCK support Yes SNTP client Yes SNTP client Yes SNTP client Yes Yes SNTP client Yes Yes STANTP client Yes Protocol / is supported SNTP In contract of the supported SNTP Team of the supported SNTP In contract of the supported FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-4 Yes STANTP client Yes Yes Standard FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 Yes STANTP client Yes Yes STANTP client Yes STANTP client Yes STANTP client Yes Standard FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 Yes STANTP client Yes Yes STANTP client Yes Yes Yes Yes Yes Yes Yes Ye	ACL - port/MAC-based	Yes
broadcast blocking protocol / is supported		Yes
protocol / is supported SSH SSH SSL Yes product functions / time product functions / time product functions / time product function SICLOCK support SICLOCK s	 broadcast/multicast/unicast limiter 	Yes
protocol / is supported SSH SSH SSL Yes product functions / time product functions / time product functions / time product function SICLOCK support SICLOCK s	broadcast blocking	Yes
• SSH Yes product functions / time product functions / time product function		
product functions / time product function SICLOCK support NTP-client SNTP client SNTP yes SNTP Standards, specifications, approvals standard for FM for safety / from CSA and UL for emitted interference for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code according to IEC 81346-2 according to IEC 81346-2:2019 standards, specifications, approvals / EN 61000-6-2 SNTP Standards FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL. 1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-2 Yes FN 61000-6-2 Yes Standards, specifications approvals / EN 61000-6-2 FE extrificate of suitability / CE marking certificate of suitability / CE marking oriticate of suitability / RoHS conformity FN 60079-0: 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 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 standards, specifications, approvals / other certificate of suitability CCC / for hazardous zone FN 60079-0: 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 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 Standards, specifications, approvals / other certificate of suitability CCTick KC approval FN 600079-0: 2006, EN 60009-15: 2005, II 3 G Ex nA II T4 KEMA 07 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 Standards, specifications, approvals / other certificate of suitability CCTick KC approval FN 600079-0: 2006, EN 61000-6-4 Yes Standards, specifications, approvals / other certificate of suitability CCTick KC approval	• SSH	Yes
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NTP-client NTP-client NTP client NTP client NTP client Yes Yes Yes Yes Standard Nor FM Nor FM Nor Safety / from CSA and UL Nor emitted interference Nor interference immunity Nor interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 Terference code Nor according to IEC 81346-2 Nor according to IEC 81346-2 (FE) Standards, specifications, approvals / CE certificate of suitability / RoHS conformity Standards, specifications, approvals / hazardous environments standard / for hazardous zone Nor FM Nor	·	Yes
SNTP client protocol / is supported SNTP Standards, specifications, approvals standard of or FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 of or safety / from CSA and UL of or emitted interference of or interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code according to IEC 81346-2 according to IEC 81346-2:2019 standards, specifications, approvals / Experimental Standard's, specifications, approvals / hazardous environments standard / for hazardous zone of from CSA and UL of or emitted interference FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-4 (Class A) EN 61000-6-2 Yes KF KF *KF *KF *Security of industrial automation systems / according to IEC 81346-2 Yes standards, specifications, approvals / Experimental Standard / for hazardous zone FN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 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 certificate of suitability CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability CCC / Tick CCC / Tick KER Yes further information / internet-Links		
protocol / is supported		
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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 • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code • according to IEC 81346-2:2019 reference code • according to IEC 81346-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking • from CSA and UL standard / for hazardous zone FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T8 IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1 EN 61000-6-2 Yes KF **Fe **Fe **Fe **Fe **Fe **Fe **Fe **Standards, specifications, approvals / CE certificate of suitability / RoHS conformity **Yes; 2011/65/EU **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, T8 certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other	standards, specifications, approvals	
• for FM • for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code • according to IEC 81346-2 • according to IEC 81346-2:2019 standards, specifications, approvals / barardous environments standard / for hazardous zone • from CSA and UL • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard ves EN 61000-6-2, EN 61000-6-4 ves EN 61000-6-2, EN 61000-6-4 ves further information / internet-Links		
• for safety / from CSA and UL • for emitted interference • for interference immunity IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code • according to IEC 81346-2 • according to IEC 81346-2 • according to IEC 81346-2 • according to IEC 81346-2:2019 reference of suitability / CE marking certificate of suitability / RoHS conformity standards, specifications, approvals / hazardous environments standard / for hazardous zone efrom CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard yes standards, specifications, approvals / other certificate of suitability • CCT / for hazardous zone according to GB standard yes standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval further information / internet-Links		FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
for emitted interference for interference immunity	for safety / from CSA and UL	
IT security for industrial automation systems / according to IEC 62443-4-2:2019 reference code	• for emitted interference	EN 61000-6-4 (Class A)
reference code • according to IEC 81346-2 • according to IEC 81346-2:2019 standards, specifications, approvals / CE certificate of suitability / CE marking certificate of suitability / RoHS conformity standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • CCC / for hazardous zone according to GB standard yes standards, specifications, approvals / other certificate of suitability • C-Tick • C-Tick • KC approval further information / internet-Links	• for interference immunity	EN 61000-6-2
reference code • according to IEC 81346-2 KF • according to IEC 81346-2:2019 KFE standards, specifications, approvals / CE certificate of suitability / CE marking Yes; 2011/65/EU 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, T8 certificate of suitability • CCC / for hazardous zone according to GB standard Yes standards, specifications, approvals / other certificate of suitability • C-Tick Yes • KC approval Yes further information / internet-Links	IT security for industrial automation systems / according to	Yes
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standard / for hazardous zone • from CSA and UL • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval further information / internet-Links	certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standard / for hazardous zone • from CSA and UL • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval further information / internet-Links	standards, specifications, approvals / hazardous environr	nents
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• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

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

http://www.siemens.com/simatic-net

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security information

security information

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