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Data sheet   **6GK5216-0BA00-2AB2**

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	
product brand name	SCALANCE
product type designation	XB216
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
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 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	compact
width	80 mm
height	117 mm
depth	109 mm
net weight	0.4 kg
material / of the enclosure	Polycarbonate (PC-GF10)

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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, engineering	
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	Yes
● CoS	Yes
● PROFINET IO diagnosis	Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 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 function / is supported / identification link	Yes; according to IEC 61406-1:2022
product functions / diagnostics	
product function	
● port diagnostics	Yes
● statistics Packet Size	Yes
● statistics packet type	Yes
● error statistics	Yes
● SysLog	Yes
product functions / VLAN	
product function	
● VLAN - port based	Yes
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
product functions / DHCP	
product function	
● DHCP client	Yes
product functions / redundancy	
product function	
● of the PROFINET IO device / is supported / PROFINET system redundancy	No
● ring redundancy	Yes

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● 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
● Media Redundancy Protocol Interconnection (MRP-I)	Yes
● redundancy procedure STP	Yes
● redundancy procedure RSTP	Yes
● redundancy procedure RSTP+	Yes
● Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
● passive listening	Yes
protocol / is supported	
● LACP	Yes

product functions / security

product function	
● IEEE 802.1x (radius)	Yes
● broadcast/multicast/unicast limiter	Yes
● broadcast blocking	Yes
protocol / is supported	
● SSH	Yes
● SSL	Yes

product functions / time

product function	
● SICLOCK support	Yes
● NTP-client	Yes
● SNTP client	Yes
protocol / is supported	
● SNTP	Yes

standards, specifications, approvals

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
certificate of suitability / RoHS conformity	Yes; 2011/65/EU

standards, specifications, approvals / hazardous environments

certificate of suitability	
● ATEX	Yes
● UKEX	Yes
● IECEx	Yes
● ULhazloc approval	Yes
● CCC / for hazardous zone according to GB standard	Yes
● FM registration	Yes

standards, specifications, approvals / other

certificate of suitability	EN 61000-6-2, EN 61000-6-4
● C-Tick	Yes
● KC approval	Yes

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
● total	252.5 kg
● during manufacturing	26.6 kg
● during operation	225.28 kg
● after end of life	0.6 kg

product functions / general

Warranty period	5 a

further information / internet links

internet link	
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Manufacturer Declaration	CE EG-Konf.	UKCA	EAC	Declaration of Conformity	UL

General Product Approval			EMV	For use in hazardous locations	
Declaration of Conformity	RCM	TÜV	KC	IECEx	Ex ATEX

For use in hazardous locations			Radio Equipment Type Approval Certificate	Environment	
FM	CCC-Ex	UL	KC	Confirmation	EPD

Industrial Communication

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