SIEMENS

Data sheet

6GK5216-0BA00-2AA3



SCALANCE X216, managed IE switch, 16x 10/100 Mbit/s RJ45 ports, LED diagnostics, error-signaling contact with set button, redundant power supply, PROFINET IO device, network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-plug optional

Product type designation	SCALANCE X216
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
Number of 10/100 Mbit/s RJ45 ports / Integrated	
with securing collar	16
Interfaces / other	
Number of electrical connections	
for signaling contact	1
for power supply	1
Type of electrical connection	
 for signaling contact 	2-pole terminal block
• for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes

C:		
Signal inputs/outputs Operating voltage / of the signaling contacts		
	24 V	
at DC / Rated value	Z4 V	
Operating current / of the signaling contacts	0.1 A	
• at DC / maximum	U.1 A	
Supply voltage, current consumption, power loss		
Type of voltage / 1 / of the supply voltage	DC	
 Supply voltage / 1 / Rated value 	24 V	
Power loss [W] / 1 / Rated value	5.76 W	
Supply voltage / 1 / rated value	18 32 V	
Ambient conditions		
Ambient temperature		
during operation	-40 +60 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
Relative humidity		
• at 25 °C / without condensation / during	95 %	
operation / maximum		
Protection class IP	IP30	
Design, dimensions and weights		
Design	compact	
Width	120 mm	
Height	125 mm	
Depth	124 mm	
Net weight	1.2 kg	
Mounting type		
35 mm DIN rail mounting	Yes	
wall mounting	Yes	
• S7-300 rail mounting	Yes	
• S7-1500 rail mounting	No	
Product features, product functions, product components / general		
Cascading in the case of a redundant ring / at	100	
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	Yes	
web-based management	Yes	
MIB support	Yes	
• TRAPs via email	Yes	

Configuration with STEP 7	Yes
Port mirroring	Yes
 multiport mirroring 	No
with IRT / PROFINET IO switch	No
 PROFINET IO diagnosis 	Yes
PROFINET conformity class	В
Product function / switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location	Yes
designation	
Product functions / Diagnostics	
Product function	
 Port diagnostics 	Yes
Statistics Packet Size	Yes
 Statistics packet type 	Yes
Error statistics	Yes
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 	No

Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
 media redundancy protocol (MRP) with redundancy manager 	Yes
 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	
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
 SICLOCK support 	Yes
Protocol / is supported	
• NTP	No
• 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	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
• for emitted interference	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-2:2001
MTBF	52.07 y
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
• C-Tick	Yes
 Railway application in accordance with EN 50155 	No
 Railway application in accordance with EN 50124-1 	No
• KC approval	Yes

Standards, specifications, approvals / marine classification

Marine classification association

• American Bureau of Shipping Europe Ltd.

Bureau Veritas (BV)

No • Det Norske Veritas (DNV)

Nο • Germanische Lloyd (GL)

Yes • DNV GL

Yes • Lloyds Register of Shipping (LRS)

Yes Nippon Kaiji Kyokai (NK)

Yes • Polski Rejestr Statkow (PRS)

Yes • Royal Institution of Naval Architects (RINA)

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

Yes

Yes

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

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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. Thirdparty 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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