6GK5208-0BA00-2AA3

SCALANCE X208 Managed Industrial Ethernet Switch

Siemens 6GK5208-0BA00-2AA3 is a SCALANCE X208 managed Industrial Ethernet switch with eight 10/100 Mbit/s RJ45 ports, redundant 24 V DC supply inputs, and HRP ring support.

PRODUCT ENQUIRY

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Product overview

Siemens 6GK5208-0BA00-2AA3 is the SCALANCE X208 managed Industrial Ethernet switch. It provides eight RJ45 ports for 10/100 Mbit/s devices and includes LED diagnostics, a signaling contact, redundant supply terminals, and an optional C-PLUG.

Management functions include web-based management, MIB support, SNMP v1/v2/v3, port mirroring, port diagnostics, packet statistics, DHCP client operation, and PROFINET IO diagnostics. Ring redundancy uses the documented High Speed Redundancy Protocol capability; MRP is not supported by this version.

The switch operates from 18 to 32 V DC, consumes up to 0.16 A, and is rated from -40 to 60 °C. Confirm the installed network topology, IP configuration, supply wiring, signaling contact, ring role, and any C-PLUG data before replacing an existing switch.

Technical specifications

Parameter	Value
Model Number	6GK5208-0BA00-2AA3
Product Family	SCALANCE X-200
Product Type	SCALANCE X208 managed switch
Transfer Rate	10 / 100 Mbit/s
RJ45 Network Ports	8
Signaling Contact	1; two-pole terminal block
Power Supply Connections	Main and redundant supply
Supply Terminal	Four-pole terminal block
C-PLUG Support	Yes
Signaling Contact Voltage	24 V DC
Maximum Signaling Contact Current	0.1 A
External Supply	18 to 32 V DC
Maximum Current Consumption	0.16 A
Power Loss at 24 V DC	3.84 W
Operating Temperature	-40 to 60 °C
Storage / Transport Temperature	-40 to 70 °C
Maximum Relative Humidity	95% at 25 °C, non-condensing
Ingress Protection	IP30
Width	60 mm
Height	125 mm
Depth	124 mm
Net Weight	0.78 kg
DIN-Rail Mounting	35 mm rail
Web-Based Management	Yes
Port Mirroring	Yes
PROFINET IO Diagnostics	Yes
SNMP	v1 / v2 / v3
DHCP Client	Yes
Ring Redundancy	Yes; HRP
MRP Support	No
Time Protocol	SNTP
MTBF at 40 °C	78.71 years

Source: Siemens data sheet for 6GK5208-0BA00-2AA3

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Data sheet 6GK5208-0BA00-2AA3

Product type designation	**SCALANCE X208** SCALANCE X208, MANAGED IE SWITCH, 8 X 10/100MBIT/S RJ45 PORTS, LED DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT VOLTAGE SUPPLY, PROFINET IO DEVICE, NETWORK MANAGEMENT, OPERAT. IN RED. RING, W. ELECTRONIC MANUALS ON CD, OPTIONAL C-PLUG
Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces	
Number of electrical/optical connections	
• for network components or terminal equipment / maximum	8
Type of electrical connection	
• for network components or terminal equipment	RJ45 port
Interfaces / for communication / integrated	
Number of electrical connections / for network components or terminal equipment	8
Number of 100 Mbit/s SC ports	
• for multimode	0
Number of 1000 Mbit/s LC ports	
• for multimode	0
• for single mode (LD)	0
Interfaces / others	
Number of electrical connections	
• for signaling contact	1
• for power supply	1
• for redundant voltage 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
Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A

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Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external	18 ... 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	0.6 A / 60 V
Consumed current / maximum	0.16 A
Power loss [W]	
• at DC / at 24 V	3.84 W

Permitted 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 operation / maximum	95 %
Protection class IP	IP30

Design, dimensions and weight	
Design	compact
Width	60 mm
Height	125 mm
Depth	124 mm
Net weight	0.78 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

Product properties, functions, components / general	
Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration	
Product function	
• CLI	No
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes

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• RMON	No
• Port mirroring	Yes
• multiport mirroring	No
• CoS	No
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	No
• TFTP	Yes
• FTP	No
• BOOTP	No
• DCP	No
• LLDP	No
Identification & maintenance function	
• I&M0 - device-specific information	No
• I&M1 – higher-level designation/location designation	No
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
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	No
• high speed redundancy protocol (HRP) with standby redundancy	No

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Protocol / is supported / Media Redundancy Protocol (MRP)	No
Product function	
• media redundancy protocol (MRP) with redundancy manager	No
• Passive listening	Yes

Product functions / Security	
Protocol / is supported	
• SSH	No

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 50021
• 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
Certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
• CE marking	Yes
• C-Tick	Yes
• KC approval	No
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50124-1	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes

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• Royal Institution of Naval Architects (RINA)	No
MTBF / at 40 °C	78.71 y

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

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. Third-party 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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