SIEMENS

Show actual product details

Data sheet 6GK5204-0BS00-3PA3

Product type designation
Product description

SCALANCE X204RNA EEC
Configurable version for use in PRP or HSR networks
SCALANCE X204RNA EEC; REDUNDANT NETWORK ACCESS; FOR PRP AND HSR NETWORKS; 2 X 100MBIT/S RJ45 PORTS; 2 X 100MBIT/S COMBO-PORTS; LED-DIAGNOSIS; FAULT SIGNAL-CONTACT AND SET BUTTON; REDUNDANT POWER SUPPLY; NETWORK-MANAGEMENT; INCL. ELECTRONIC MAN ON CD C-PLUG OPTIONAL



Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / integrated	
Number of electrical connections	
• for network components or terminal equipment	2
Number of 100 Mbit/s SC ports	
• for multimode	0
Number of combo ports / with RJ45 interface for optical plug-in transceiver	2
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	3-pole terminal block

Subject to change without notice
© Copyright Siemens AG

• for power supply	3-pole terminal block
design of the removable storage	
• C-PLUG	Yes

Signal-Inputs/outputs

Operating voltage / of the signaling contacts	
• at AC / Rated value	230 V
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at AC / maximum	0.1 A
• at DC / maximum	0.1 A

Supply voltage, current consumption, power loss

Supply voltage	
• at AC	230 V
• at AC / rated value	85 ... 276 V
Supply voltage / 2 / Rated value	
• Type of voltage / 2 / of the supply voltage	DC
Supply voltage / at DC	24 V
• rated value	19.2 ... 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	1.25 A
Consumed current / maximum	0.25 A
Power loss [W]	
• at DC / at 24 V	6 W

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• Note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight

Design	compact
Width	70 mm
Height	147 mm
Depth	123 mm
Net weight	0.78 kg
Mounting type	

© Copyright Siemens AG

• 35 mm DIN rail mounting	Yes
• wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No

Product functions / management, configuration

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	No
• Port mirroring	No
• multiport mirroring	No
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	No
• switch-managed	No
Protocol / is supported	
• Telnet	No
• HTTP	Yes
• HTTPS	Yes
• TFTP	No
• FTP	No
• BOOTP	No
• GMRP	No
• DCP	No
• LLDP	No
• IGMP (snooping/querier)	No
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
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

Subject to change without notice
© Copyright Siemens AG

Product functions / Redundancy	
Product function	
• Ring redundancy	No
• High Speed Redundancy Protocol (HRP)	No
• high speed redundancy protocol (HRP) with redundancy manager	No
• high speed redundancy protocol (HRP) with standby redundancy	No
Protocol / is supported / Media Redundancy Protocol (MRP)	No
Product function	
• media redundancy protocol (MRP) with redundancy manager	No
• High-availability Seamless Redundancy (HSR)	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	Yes
• High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling	Yes
• Passive listening	No

Product functions / Security	
Protocol / is supported	
• SSH	Yes

Product functions / Time	
Product function	
• SICLOCK support	No
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, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
• for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
• for emitted interference	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-4:2001
Certificate of suitability / CE marking	Yes
Standard	
• for EMC	IEC 61850, IEEE 1613
Certificate of suitability	EN 61000-6-4:2001

© Copyright Siemens AG

• C-Tick	Yes
• Railway application in accordance with EN 50155	No
• Railway application in accordance with EN 50124-1	No
• IEC 61850-3	Yes
• IEEE 1613	Yes
• KC approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
MTBF / at 40 °C	67.64 y

Accessories

Product extension / optional / C-PLUG	Yes

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

Subject to change without notice
© Copyright Siemens AG

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)
last modified:	07/07/2016

© Copyright Siemens AG