# **SIEMENS**

### Data sheet

## 6GK5204-2BC10-2AA3



SCALANCE X204-2LD, managed IE switch, 4x 10/100 Mbit/s RJ45 ports, 2x 100 Mbit/s single-mode BFOC, 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 X204-2LD	
Transfer rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	
Interfaces / for communication / Integrated		
Number of electrical connections		
• for network components or terminal equipment	4	
Number of 10/100 Mbit/s RJ45 ports / Integrated		
• with securing collar	4	
Number of 100 Mbit/s ST(BFOC) ports		
• for single mode (LD)	2	
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
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
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	6.36 W
Supply voltage / 1 / rated value	18 32 V
Ambient conditions	
Ambient temperature	-40 +60 °C
during operation	
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	05.07
at 25 °C / without condensation / during     appretion / maximum	95 %
operation / maximum Protection class IP	IP30
1 Totection class ii	11 30
Design, dimensions and weights	
Design	compact
Width	60 mm
Height	125 mm
Depth	124 mm
Net weight	0.78 kg
Mounting type	Yes
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
<ul> <li>S7-300 rail mounting</li> </ul>	res
- 07 4500 ''	Ma
• S7-1500 rail mounting	No
Product features, product functions, product compo	nents / general
Product features, product functions, product compo	
Product features, product functions, product compo Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	nents / general 100
Product features, product functions, product compo	nents / general
Product features, product functions, product compo Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s  Cascading in cases of star topology  Product functions / management, configuration, eng	nents / general  100  any (depending only on signal propagation time)
Product features, product functions, product compo Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s Cascading in cases of star topology	nents / general  100  any (depending only on signal propagation time)
Product features, product functions, product compo Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s  Cascading in cases of star topology  Product functions / management, configuration, eng	nents / general  100  any (depending only on signal propagation time)
Product features, product functions, product compo Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s Cascading in cases of star topology  Product functions / management, configuration, eng	nents / general  100  any (depending only on signal propagation time)  ineering

Configuration with STEP 7 Port mirroring Millsoft mirroring Millsoft mirroring No PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Protocol / is supported Telnet Yes HTTP Yes HTTP Yes HTTPS Yes FTP Yes BOOTP No DOP LLDP Yes SMMP V1 SNMP V2 SMMP V3 SNMP V3 Ves SMMP V3 Ves SMMP V3 Ves SMMP V3 Ves Ves SMMP V3 Ves SMMP N3 Ves SMMP N3 Ves SMM - higher-level designation/location designation Product function Port diagnostics Product function Product functions Product functions Product function Product functions Product functions Product functions Product functions Product functions Product functions Product function Product functions P	TRAPs via email	Yes
Port mirroring  multiport mir		
• multiport mirroring • with IRT / PROFINET IO switch • PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Ves Protocol / is supported • Teinet • Teinet • HTTP • Yes • HTTP • Yes • TFTP • Yes • TFTP • Yes • BOOTP • DOP • LLDP • SMMP v1 • SNMP v2 • SMMP v3 • SMMP v3  Identification & maintenance function • I&MO - device-specific information • I&M1 - higher-level designation/location designation  Product functions		
with IRT / PROFINET IO switch     PROFINET io diagnosis     PROFINET conformity class     B Product function / switch-managed     Protocol / supported     * Telnet     * Telnet     * Yes     * HTTP     * Yes     * HTTPS     * Yes     * TETP     * Yes     * TETP     * Pos     * DCP     * SMMP / Yes     * Manual / Yes	-	
PROFINET IO diagnosis  PROFINET conformity class  Product function / switch-managed  Yes  Protocol / is supported  • Telnet  • Telnet  • Telnet  • HTTP  • HTTP  • HTTP  • HTTP  • HTTP  • HTTP  • BOOTP  • DCP  • LLDP  • SNMP v1  • SNMP v2  • SNMP v3  Identification & maintenance function  • I&M - device-specific information  • I&M - higher-level designation/location  designation  Product functions / Diagnostics  Product functions  • Statistics Packet Size  • Statistics Packet Size  • Statistics packet type  • Error statistics  Product functions / DHCP  Product function  • DHCP client  Product functions / DHCP  Product function  • DHCP client  Product function / Pes  • Error statistics  Product function / DHCP  Product function / DHCP  Product function / Product function  • Ping redundancy  • Ring redundancy  • High Speed Redundancy Protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with		
PROFINET conformity class B Product function / switch-managed Yes Protocol / is supported  • Telnet Yes • HTTP Yes • HTTP Yes • HTTP Yes • FTP Yes • BOOTP No • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • SNMP v3 Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 – higher-level designation/location designation • Port diagnostics  Product functions / DHCP  Product function Yes • Ring redundancy • Ring redundancy • High Speed redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with No		
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HTTPS  TFTP  TFTP  FTP  FTP  BOOTP  BOOTP  DCP  LLDP  SNMP v1  SNMP v2  SNMP v3  Identification & maintenance function  I&M0 - device-specific information  I&M1 - higher-level designation/location designation  Product functions / Diagnostics  Product functions  Porduct functions  Porduct functions  Product function  Product functions		Yes
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• LLLDP     • SNMP v1     • SNMP v2     • SNMP v3  Identification & maintenance function     • I&MO - device-specific information     • I&MO - device-specific information     • I&MI - higher-level designation/location designation  Product functions / Diagnostics  Product function     • Port diagnostics  Product function     • Port diagnostics     • Statistics Packet Size     • Statistics packet type     • Error statistics  Product functions / DHCP  Product functions / DHCP  Product functions / DHCP  Product function     • DHCP client  Product functions / redundancy Product functions / redundancy Product function     • Ring redundancy     • High Speed Redundancy Protocol (HRP) with redundancy manager     • high speed redundancy protocol (HRP) with Product functions or redundancy prot		
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Identification & maintenance function  • I&M0 - device-specific information • I&M1 - higher-level designation/location designation  Product functions / Diagnostics  Product function • Port diagnostics • Statistics Packet Size • Statistics packet type • Error statistics  Product functions / DHCP  Product functions / DHCP  Product functions / DHCP  Product functions / Product function • DHCP client  Product functions / redundancy  Product functions / redundancy  Product functions / redundancy  Product function • Ring redundancy • High Speed Redundancy Protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with  Product functions / Protocol (HRP) with  Product function / Pes  Product function / Pe		Yes
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Product functions / Diagnostics  Product function  Port diagnostics Statistics Packet Size Statistics packet type First statistics  Product functions / DHCP  Product functions / DHCP  Product function DHCP client  Product functions / redundancy  Product function Statistics  Product functions / Yes  Product functions / redundancy  Product functions / redundancy  Product function / Yes  Product functions / redundancy  Product function / Yes  Product functions / Yes		Yes
Product function  Product function  Product functions / DHCP  Product functions / DHCP  Product function  DHCP client  Product functions / redundancy  Product function  Product function / Yes		
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● Error statistics  Product functions / DHCP  Product function  ● DHCP client  Yes  Product functions / redundancy  Product function  ● Ring redundancy  ● High Speed Redundancy Protocol (HRP)  ● high speed redundancy protocol (HRP) with redundancy manager  ● high speed redundancy protocol (HRP) with  No	Statistics Packet Size	Yes
Product functions / DHCP  Product function  • DHCP client  Product functions / redundancy  Product function  • Ring redundancy  • High Speed Redundancy Protocol (HRP)  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with  No	<ul> <li>Statistics packet type</li> </ul>	Yes
Product function  • DHCP client  Product functions / redundancy  Product function  • Ring redundancy  • High Speed Redundancy Protocol (HRP)  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with No	• Error statistics	Yes
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Product function  • Ring redundancy  • High Speed Redundancy Protocol (HRP)  • high speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with No	DHCP client	Yes
<ul> <li>Ring redundancy</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with No</li> </ul>		
<ul> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with No</li> </ul>		
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with No</li> </ul>	Ring redundancy	
redundancy manager  • high speed redundancy protocol (HRP) with  No	<ul><li>High Speed Redundancy Protocol (HRP)</li></ul>	
ingli operations, protessi (i ii ii ) illian		Yes
		No

Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
Passive listening	Yes
Product functions / Security	
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	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
<ul> <li>for safety / from CSA and UL</li> </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 (Class A)
• for interference immunity	EN 61000-6-2
MTBF	74.64 y
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
<ul> <li>Railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>Railway application in accordance with EN 50124-1</li> </ul>	No
KC approval	Yes

# Standards, specifications, approvals / marine classification

#### Marine classification association

 American Bureau of Shipping Europe Ltd. (ABS) No

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)

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Yes

Royal Institution of Naval Architects (RINA)

No

### Further information / Internet-Links

#### Internet-Link

• to website: Selector SIMATIC NET

http://www.siemens.com/snst

SELECTION TOOL

• 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 http://www.siemens.com/cax

to website: CAx Download Managerto 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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