SIEMENS

Data sheet 6GK5101-1BB00-2AA3

product type designation	**X101-1**



********** spare part ********* SCALANCE X101-1, IE media converter unmanaged 1x 10/100 Mbps RJ45 port, 1x 100 Mbps multimode BFOC, LED diagnostics, error signaling contact with set pushbutton redundant power supply, PROFINET-compliant securing collars, manual available as a download

product brand name	SCALANCE
transfer rate	
transfer rate	100
interfaces	
number of electrical/optical connections / for network components or terminal equipment / maximum	2
number of electrical connections	
● for network components or terminal equipment	1
● for signaling contact	1
● for power supply	1
● for redundant voltage supply	1
type of electrical connection	
● for network components or terminal equipment	RJ45 port
● for signaling contact	2-pole terminal block
● for power supply	4-pole terminal block
number of optical interfaces	
● for fiber optic cable / at 100 Mbit/s	1
design of the optical interface	
● for fiber optic cable / at 100 Mbit/s	BFOC-Port (Multimode up to 5 km)
connectable optical power relative to 1 mW	
● of the transmitter output / minimum	-19 dB
● of the transmitter output / maximum	-14 dB
● of the receiver input / maximum	-14 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-31 dB
attenuation factor / of the FOC transmission link / minimum necessary	0 dB
range / at the optical interface / depending on the optical fiber used	0 ... 5 km
signal inputs/outputs	
operating voltage / of the signaling contacts	
● at DC / rated value	24 V
operational current / of the signaling contacts	
● at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
supply voltage	
● external	24 V
● external	18 ... 32 V
type of voltage / of the supply voltage	DC

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product component / fusing at power supply input	Yes
fuse protection type / at input for supply voltage	0.5 A / 60 V
consumed current	
● maximum	0.12 A
power loss [W]	
● at DC / at 24 V	3 W
ambient conditions	
ambient temperature	
● during operation	-10 ... +60 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP30
design, dimensions and weights	
design	compact
width	40 mm
height	125 mm
depth	124 mm
net weight	0.55 kg
fastening method	
● 35 mm DIN-rail mounting	Yes
● S7-300 rail mounting	Yes
● wall mounting	Yes
product functions / redundancy	
product function	
● Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
standards, specifications, approvals	
standard	
● for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T.., Class 1, Zone 2, Group IIC, T..
● for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
● for emitted interference	EN 61000-6-3
● for interference immunity	EN 61000-6-4:2001
certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
● CE marking	Yes
● C-Tick	Yes
● KC approval	Yes
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● French marine classification society (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)	No
MTBF	134 a
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 600079-15 II 3 G EEx nA II T.. KEMA 06 ATEX 0021 X
● from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T.., Class 1 / Zone 2 / Group IIC / T..
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
● as marking	Ex nA IIC T4 Gc
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358

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● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 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

EG-Konf. | CCC | Declaration of Conformity | EAC | China RoHS | Manufacturer Declaration

General Product Approval

UL | Miscellaneous | RCM | EG-Konf. | UKCA

EMV

KC

For use in hazardous locations

ATEX | IECEx | FM | KEMA | CCC-Ex

Maritime application

ABS

Maritime application

BUREAU VERITAS | DNV | LRS | NK / Nippon Kaiji Kyokai | PRS | RINA

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