

### Product type designation

### SCALANCE X101-1

SCALANCE X101-1, IE Media converter unmanaged 1x 10/100 Mbit/s RJ45 port, 1x 100 Mbit/s Multimode BFOC, LED diagnostics, error signaling Contact with Set pushbutton Redundant power supply, PROFINET-compliant securing collars, Manual available as a download available



### Transmission rate

Transfer rate	100 Mbit/s
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### Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	2
Number of electrical connections	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> <li>• for signaling contact</li> <li>• for power supply</li> <li>• for redundant voltage supply</li> </ul>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	<p>RJ45 port</p> <p>2-pole terminal block</p> <p>4-pole terminal block</p>
Number of optical interfaces	
<ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>	1
Design of the optical interface	
<ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>	BFOC-Port (Multimode up to 5 km)

Connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> <li>• of the transmitter output / minimum</li> </ul>	-19 dB
<ul style="list-style-type: none"> <li>• of the transmitter output / maximum</li> </ul>	-14 dB
<ul style="list-style-type: none"> <li>• of the receiver input / maximum</li> </ul>	-14 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-31 dB
Damping ratio / 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	
<ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>	0.1 A

### Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> <li>• external</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• external</li> </ul>	18 ... 32 V
Type of voltage / of the supply voltage	DC
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	0.5 A / 60 V
Consumed current	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	0.12 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	3 W

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-10 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +80 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +80 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP30

### Design, dimensions and weight

Design	Compact
Width	40 mm
Height	125 mm
Depth	124 mm
Net weight	0.55 kg
Mounting type	
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes

- S7-300 rail mounting
- wall mounting

Yes  
Yes

## Product functions / Redundancy

### Product function

- Parallel Redundancy Protocol (PRP)/operation in the PRP-network
- Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)

No  
No

## Standards, specifications, approvals

### Standard

- for FM
- for hazardous zone
- for safety / from CSA and UL
- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

FM3611: Class 1, Divison 2, Group A, B, C, D / T.., Class 1, Zone 2, Group IIC, T..  
EN 600079-15 II 3 G EEx nA II T.. KEMA 06 ATEX 0021 X  
UL 60950-1, CSA C22.2 No. 60950-1  
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..  
EN 61000-6-3  
EN 61000-6-4:2001

### Certificate of suitability

- CE marking
- C-Tick
- KC approval

EN 61000-6-2:2001, EN 61000-6-4:2001  
Yes  
Yes  
Yes

### Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Germanische Lloyd (GL)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
- Polski Rejestr Statkow (PRS)

Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
No

### MTBF

134 y

## 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

<http://www.siemens.com/snst>  
<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>

## Security information

### Security information

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