



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

transfer rate	
transfer rate	100 Mbit/s
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	ST/BFOC-Port
connectable optical power relative to 1 mW	
• of the transmitter output / minimum	-5 dB
• of the transmitter output / maximum	0 dB
• of the receiver input / maximum	0 dB
optical sensitivity relating to 1 mW / of the receiver input / minimum	-35 dB
attenuation factor / of the FOC transmission link / minimum necessary	0 dB
range / at the optical interface / depending on the optical fiber used	0 ... 26 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
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
<b>ambient conditions</b>	
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
<b>design, dimensions and weights</b>	
design	Compact
width	40 mm
height	125 mm
depth	124 mm
net weight	0.55 kg
fastening method	
<ul style="list-style-type: none"> <li>• 35 mm top hat DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	No
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>• for FM</li> </ul>	FM3611: Class 1, Division 2, Group A, B, C, D / T.., Class 1, Zone 2, Group IIC, T..
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4:2001
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-4:2001
certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• KC approval</li> </ul>	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Germanische Lloyd (GL)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No
MTBF	134 a
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	TFD
<b>standards, specifications, approvals / hazardous environments</b>	
standard / for hazardous zone	EN 60079-15 II 3 G EEx nA II T.. KEMA 06 ATEX 0021 X
<ul style="list-style-type: none"> <li>• from CSA and UL</li> </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
<ul style="list-style-type: none"> <li>• as marking</li> </ul>	Ex nA IIC T4 Gc
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>

- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://www.automation.siemens.com/bilddb>  
<https://www.siemens.com/cax>  
<https://support.industry.siemens.com>

## security information

security information

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## Approvals / Certificates

### General Product Approval



[Declaration of Con-  
formity](#)



### General Product Approval

### EMV

### For use in hazardous locations

[Miscellaneous](#)



[KC](#)

[FM](#)



[CCC-Ex](#)

## Marine / Shipping



[NK / Nippon Kaiji Ky-  
okai](#)



## Marine / Shipping

## Environment



[Confirmation](#)

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