

**Product-type designation**

**SCALANCE X307-3**



SCALANCE X307-3,  
 MANAGED PLUS IE SWITCH,  
 3 X 1000MBIT/S MM SC AND 7 X 10/100MBIT/S RJ45  
 PORTS,  
 LED DIAGNOSTICS,  
 FAULT SIGNAL. CONTACT WITH SELECT/SET BUTTON,  
 PROFINET-IO DEVICE, NETWORK MANAGEMENT,  
 INTEGRATED REDUNDANCY MANAGER,  
 OFFICE FEATURES (RSTP, VLAN, IGMP,..) C-PLUG IN  
 SCOPE OF SUPPLY

**Transmission rate**

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s

**Interfaces**

Number of electrical/optical connections / for network components or terminal equipment / maximum	10
Number of electrical connections	
<ul style="list-style-type: none"> <li>• for network components and terminal equipment</li> </ul>	7
<ul style="list-style-type: none"> <li>• for alarm contact</li> </ul>	1
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	1
<ul style="list-style-type: none"> <li>• for redundant power supply</li> </ul>	2
Design of electrical connection	
<ul style="list-style-type: none"> <li>• for network components and terminal equipment</li> </ul>	RJ45 port
<ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>	2-pole terminal block
<ul style="list-style-type: none"> <li>• for power supply</li> </ul>	4-pole terminal block
Number of optical interfaces / for optical waveguide	
<ul style="list-style-type: none"> <li>• at 1000 Mbit/s</li> </ul>	3
Design of optical interface / for optical waveguide	
<ul style="list-style-type: none"> <li>• at 1000 Mbit/s</li> </ul>	SC port (multimode up to 0.75 km)

Connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> <li>• of the transmitter output</li> </ul>	-9.5 ... -4 dB
<ul style="list-style-type: none"> <li>• of the receiver input / maximum</li> </ul>	-3 dB
Optical sensitivity relative to 1 mW / of the receiver input / minimum	-17 dB
Attenuation / of fiber-optic cable transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 0.75 km
design of the removable storage / C-PLUG	Yes
<b>Inputs/outputs</b>	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
<b>Supply voltage, current consumption, power loss</b>	
Type of supply voltage / redundant power supply unit	No
Type of voltage / of supply voltage	DC
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
Product component / fusing at power supply input	Yes
Consumed current / maximum	0.4 A
Power loss	
<ul style="list-style-type: none"> <li>• at 24 V / for DC</li> </ul>	9.6 W
<b>Permitted ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operating</li> </ul>	-10 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operating / maximum</li> </ul>	95 %
Protection class IP	IP30
<b>Design, dimensions and weight</b>	
Design	compact
Width	120 mm
Height	125 mm
Depth	123 mm
Net weight	1.4 kg
Type of mounting	
<ul style="list-style-type: none"> <li>• Installation 19 inch</li> </ul>	No
<ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• wall mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes

Type of mounting

When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted

## Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 0.3\text{ s}</math>

50

Cascading in cases of star structuring

Any (depending only on signal propagation time)

Product function

- CLI
- web-based management
- MIB support
- TRAPs via email
- Configuration with STEP 7
- RMON
- Port mirroring
- CoS
- PROFINET IO diagnosis
- switch-managed

Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes

Protocol / is supported

- Telnet
- HTTP
- HTTPS
- TFTP
- FTP
- BOOTP
- SNMP v1
- SNMP v2
- SNMP v3
- IGMP (snooping/querier)
- GMRP
- DCP
- LLDP

Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes  
Yes

Identification & maintenance

- I&M0 - device-specific information
- I&M1 - plant identification/location name

Yes  
Yes

## Product functions / Diagnosis

Product function

- Port diagnostics
- Statistics Packet Size
- Statistics packet type
- Error statistics

Yes  
Yes  
Yes  
Yes

• SysLog	Yes
<b>Product functions / VLAN</b>	
Product function	
• VLAN - port based	Yes
• VLAN dynamic	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
<b>Product functions / DHCP</b>	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
<b>Product functions / Redundancy</b>	
Product function	
• Ring redundancy	Yes
• Redundancy manager	Yes
• Standby redundancy	Yes
• HSR redundancy protocol	Yes
• MRP redundancy protocol	Yes
• redundancy procedure STP	Yes
• RSTP redundancy protocol	Yes
• Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• RSTP big network support	Yes
• LACP	Yes
<b>Product functions / Security</b>	
Product function	
• ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	Yes
• Broadcast/Multicast/Unicast Limiter	Yes
• broadcast blocking	Yes
Protocol / is supported / SSH	Yes
<b>Product functions / Time</b>	
Product function / SICLOCK support	Yes

Protocol / is supported

- NTP No
- SNTP Yes
- IEEE 1588 profile default No

**Standards, specifications, approvals**

Standard

- for EMC
  - from FM FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
- for hazardous zone EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
- for safety / of CSA and UL UL 60950-1, CSA C22.2 No. 60950-1
- for hazardous area / of CSA and UL UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213 -M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
- for emitted interference EN 61000-6-4:2007 (Class A)
- for interference immunity EN 61000-6-2:2005

Verification of suitability

- CE mark Yes
- C-Tick Yes
- Railway application in accordance with EN 50155 No

Marine classification association

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

**letzte Änderung:**

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