

### Product type designation

### SCALANCE X307-2EEC

SCALANCE X307-2EEC; MANAGED IE SWITCH, COMPACT; 5 X 10/100MBIT/S RJ45; 2 X 10/100/1000MBIT/S RJ45; 2 X 100MBIT/S LC FO PORTS; 24 V DC POWER SUPPLY; LED-DIAGNOSTICS; FAULT SIGNAL CONTACT; 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	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
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### Interfaces

Number of electrical/optical connections	9
<ul style="list-style-type: none"> <li>• for network components or terminal equipment / maximum</li> </ul>	
Type of electrical connection	RJ45 port
<ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> </ul>	
Number of optical interfaces	2
<ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>	
Design of the optical interface	LC port (multimode up to 5 km)
<ul style="list-style-type: none"> <li>• for fiber optic cable / at 100 Mbit/s</li> </ul>	
Connectable optical power relative to 1 mW	-19 ... -14
<ul style="list-style-type: none"> <li>• of the transmitter output</li> </ul>	
<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	-32 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

### Interfaces / for communication / integrated

Number of electrical connections / for network components or terminal equipment	7
Number of 100 Mbit/s SC ports <ul style="list-style-type: none"> <li>• for multimode</li> </ul>	0
Number of 1000 Mbit/s LC ports <ul style="list-style-type: none"> <li>• for multimode</li> <li>• for single mode (LD)</li> </ul>	0 2

### Interfaces / others

Number of electrical connections <ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> <li>• for redundant voltage supply</li> </ul>	1 1 1
Type of electrical connection <ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	2-pole terminal block 4-pole terminal block
design of the removable storage <ul style="list-style-type: none"> <li>• C-PLUG</li> </ul>	Yes

### 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

Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	DC
Supply voltage <ul style="list-style-type: none"> <li>• external</li> <li>• external</li> </ul>	24 V 19.2 ... 57.6 V
<b>Supply voltage / 2 / Rated value</b> <ul style="list-style-type: none"> <li>• Type of voltage / 2 / of the supply voltage</li> </ul>	DC
Supply voltage <ul style="list-style-type: none"> <li>• at DC</li> <li>• at DC / rated value / minimum</li> <li>• at DC / rated value / maximum</li> </ul>	24 V 19.2 V 57.6 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	T 4 A / 125 V

Consumed current / maximum	0.75 A
Power loss [W]	
<ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>	12 W

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• Note</li> </ul>	<p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>A maximum operating temperature of +85 °C is permissible for a duration of 16 hours</p>
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Coating	Conformal Coating, no
Protection class IP	IP30

### Design, dimensions and weight

Design	compact
Width	216 mm
Height	143 mm
Depth	110 mm
Net weight	1.8 kg
Mounting type	Wall mounting is possible only with an additional wall bracket; 19" mounting only with installation of two X-300EEC switches in pairs using a mounting plate
<ul style="list-style-type: none"> <li>• 19-inch installation</li> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>

### Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3$ s	100
Cascading in cases of star topology	any (depending only on signal propagation time)

### Product functions / management, configuration

Product function	
<ul style="list-style-type: none"> <li>• CLI</li> <li>• web-based management</li> <li>• MIB support</li> <li>• TRAPs via email</li> <li>• Configuration with STEP 7</li> <li>• RMON</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
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Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• IGMP (snooping/querier)	Yes
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Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
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Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

### Product functions / Diagnosis

Product function	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes

### Product functions / VLAN

Product function	
• VLAN - port based	Yes
• VLAN - protocol-based	No
• VLAN - IP-based	No
• VLAN dynamic	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes

## Product functions / DHCP

Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes

## Product functions / Redundancy

Product function	
• Ring redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	No
• RSTP big network support	Yes
• LACP	Yes

## Product functions / Security

Product function	
• ACL - MAC-based	Yes
• ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	Yes
• Broadcast/Multicast/Unicast Limiter	Yes
• broadcast blocking	Yes
Protocol / is supported	
• SSH	Yes

## Product functions / Time

Product function	
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<ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul>	Yes

### Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	IEC 61850, IEEE 1613
<ul style="list-style-type: none"> <li>• for FM</li> </ul>	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 508
<ul style="list-style-type: none"> <li>• for hazardous zone / from CSA and UL</li> </ul>	ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, UL 1604 and 2279-15, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4:2007 (Class A)
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2:2005
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<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
<ul style="list-style-type: none"> <li>• Railway application in accordance with EN 50155</li> </ul>	No
<ul style="list-style-type: none"> <li>• Railway application in accordance with EN 50124-1</li> </ul>	No
<ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• IEEE 1613</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>• Bureau Veritas (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>	No
<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
<ul style="list-style-type: none"> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>	No
MTBF / at 40 °C	29.9 y

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<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>

<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)

**last modified:**

23.01.2016