

### 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; 100 - 240V AC/DC POWER SUPPLY; CONFORMAL COATING; 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	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
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### Interfaces / for communication / integrated

Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	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> </ul>	1 1
Type of electrical connection	
<ul style="list-style-type: none"> <li>for signaling contact</li> <li>for power supply</li> </ul>	3-pole terminal block 3-pole terminal block

design of the removable storage • C-PLUG	Yes
<b>Signal-Inputs/outputs</b>	
Operating voltage / of the signaling contacts • at AC / Rated value • at DC / Rated value	276 V 230 V
Operating current / of the signaling contacts • at AC / maximum • at DC / maximum	5 A 0.1 A
<b>Supply voltage, current consumption, power loss</b>	
Type of voltage supply / redundant power supply unit	No
Type of voltage / of the supply voltage	AC
Supply voltage • at AC • at AC / rated value	230 V 80 ... 276 V
<b>Supply voltage / 2 / Rated value</b> • Type of voltage / 2 / of the supply voltage	DC
Supply voltage / at DC • rated value	220 V 46.25 ... 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	T 2 A / 250 V
Consumed current / maximum	0.08 A
Power loss [W] • at AC / at 230 V • at DC / at 250 V	18 W 18 W
<b>Permitted ambient conditions</b>	
Ambient temperature • during operation • during storage • during transport • Note	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity • at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP30
<b>Design, dimensions and weight</b>	
Design	compact
Width	216 mm
Height	143 mm
Depth	110 mm

Net weight	1.85 kg
Product feature / conformal coating	Yes
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 <math>\sim 0.3\text{ s}</math>	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> <li>• Port mirroring</li> <li>• multiport mirroring</li> <li>• CoS</li> <li>• with IRT / PROFINET IO switch</li> <li>• PROFINET IO diagnosis</li> <li>• switch-managed</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p>
Protocol / is supported	
<ul style="list-style-type: none"> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• FTP</li> <li>• BOOTP</li> <li>• GMRP</li> <li>• DCP</li> <li>• LLDP</li> <li>• IGMP (snooping/querier)</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• I&amp;M1 – higher-level designation/location designation</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v2</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>	Yes

### Product functions / Diagnosis

Product function	
<ul style="list-style-type: none"> <li>• Port diagnostics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Statistics Packet Size</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Statistics packet type</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Error statistics</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SysLog</li> </ul>	Yes

### Product functions / VLAN

Product function	
<ul style="list-style-type: none"> <li>• VLAN - port based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• VLAN - protocol-based</li> </ul>	No
<ul style="list-style-type: none"> <li>• VLAN - IP-based</li> </ul>	No
<ul style="list-style-type: none"> <li>• VLAN dynamic</li> </ul>	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes

### Product functions / DHCP

Product function	
<ul style="list-style-type: none"> <li>• DHCP client</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 82</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 66</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DHCP Option 67</li> </ul>	Yes

### Product functions / Redundancy

Product function	
<ul style="list-style-type: none"> <li>• Ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes

• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
• Passive listening	Yes
<b>Protocol / is supported</b>	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	No
• RSTP big network support	Yes
• LACP	Yes

### Product functions / Security

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

### Product functions / Time

<b>Product function</b>	
• SICLOCK support	Yes
<b>Protocol / is supported</b>	
• NTP	Yes
• SNTP	Yes
• IEEE 1588 profile default	Yes

### Standards, specifications, approvals

<b>Standard</b>	
• for FM	-
• for hazardous zone	-
• for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
• for hazardous zone / from CSA and UL	-
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
<b>Certificate of suitability / CE marking</b>	Yes
<b>Standard</b>	

<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	IEC 61850, IEEE 1613
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> <li>• C-Tick</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
<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>• 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	24.6 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>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### 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)

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