# **SIEMENS**

## Data sheet

6GK5307-3BL10-2AA3

### 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	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical/optical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	10
/ maximum	
Type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 port
Number of optical interfaces	
• for fiber optic cable / at 1000 Mbit/s	3
Design of the optical interface	
• for fiber optic cable / at 1000 Mbit/s	SC port (multimode up to 0.75 km)
Connectable optical power relative to 1 mW	
• of the transmitter output	-9.54
• of the receiver input / maximum	-3 dB
Optical sensitivity relating to 1 mW / of the receiver	-17 dB
input / minimum	

Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 0.75 km
Interfaces / for communication / integrated	
Number of electrical connections / for network	7
components or terminal equipment	
Number of 100 Mbit/s SC ports	
• for multimode	0
Number of 1000 Mbit/s LC ports	
• for multimode	0
• for single mode (LD)	0
Interfaces / others	
Number of electrical connections	
for signaling contact	1
<ul><li>for power supply</li></ul>	1
<ul> <li>for redundant voltage supply</li> </ul>	2
Type of electrical connection	
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
● at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at DC / maximum	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	
• external	24 V
• external	18 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 3 A / 32 V
Consumed current / maximum	0.4 A
Power loss [W]	
	9.6 W
• at DC / at 24 V	
Permitted ambient conditions	
	-10 +60 °C

during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP30

Design, dimensions and weight	
Design	compact
Width	120 mm
Height	125 mm
Depth	123 mm
Net weight	1.4 kg
Mounting type	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
19-inch installation	No
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

Product properties, functions, components / genera	l e e e e e e e e e e e e e e e e e e e
Cascading in the case of a redundant ring / at	100
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration			
Product function			
• CLI	Yes		
<ul> <li>web-based management</li> </ul>	Yes		
<ul> <li>MIB support</li> </ul>	Yes		
TRAPs via email	Yes		
<ul> <li>Configuration with STEP 7</li> </ul>	Yes		
• RMON	Yes		
Port mirroring	Yes		
multiport mirroring	Yes		
• CoS	Yes		
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes		
<ul><li>switch-managed</li></ul>	Yes		
Protocol / is supported			
• Telnet	Yes		
• HTTP	Yes		
• HTTPS	Yes		
• TFTP	Yes		

• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
<ul><li>IGMP (snooping/querier)</li></ul>	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
Product function	
<ul> <li>Port diagnostics</li> </ul>	Yes
<ul> <li>Statistics Packet Size</li> </ul>	Yes
Statistics packet type	Yes
Error statistics	Yes
<ul><li>SysLog</li></ul>	Yes
Product functions / VLAN	
Product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	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
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes

<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	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
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
• IEEE 802.1x (radius)	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul><li>broadcast blocking</li></ul>	Yes
Protocol / is supported	
• SSH	Yes
Product functions / Time	
Product function	
SICLOCK support	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
● IEEE 1588 profile default	No
Standards, specifications, approvals Standard	
• for FM	FM3611: Class 1, Divison 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

<ul><li>for safety / from CSA and UL</li></ul>	UL 60950-1, CSA C22.2 No. 60950-1
● for hazardous zone / from 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
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE marking	Yes
• C-Tick	Yes
KC approval	Yes
<ul> <li>Railway application in accordance with EN 50155</li> </ul>	No
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd.</li> <li>(ABS)</li> </ul>	Yes
<ul><li>Bureau Veritas (BV)</li></ul>	Yes
<ul><li>Det Norske Veritas (DNV)</li></ul>	Yes
Germanische Lloyd (GL)	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	No
MTBF / at 40 °C	10 y

#### Further Information / Internet Links

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• 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

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

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Security information

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