## SIEMENS

Product type designation

## Data sheet

## 6GK5320-1BD00-2AA3



## SCALANCE X320-1FE

SCALANCE X320-1FE MANAGED IE SWITCH, 20 X 10/100 MBIT/S RJ45 PORTS, 1 X 100MBIT/S SC PORT MULTIMODE 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 THE SCOPE OF SUPPLY

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces	
Number of electrical/optical connections	
<ul> <li>for network components or terminal equipment</li> <li>/ maximum</li> </ul>	21
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	20
Type of electrical connection	
<ul> <li>for network components or terminal equipment</li> </ul>	RJ45 port
Number of optical interfaces	
<ul> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	1
Design of the optical interface	
<ul> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	SC port (multimode up to 5 km)
Connectable optical power relative to 1 mW	
<ul> <li>of the transmitter output</li> </ul>	-1914
<ul> <li>of the receiver input / maximum</li> </ul>	-3 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
nterfaces / for communication / integrated	

Interfaces / for communication / integrated

Number of 100 Mbit/s SC ports / for multimode	1
Number of 1000 Mbit/s LC ports / for multimode	0
Interfaces / others Number of electrical connections	
	1
• for signaling contact	
• for power supply	1
• for redundant voltage supply	2
Type of electrical connection	
<ul> <li>for signaling contact</li> </ul>	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	
<ul> <li>for DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts	
● for 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
Active power loss	
• for DC / at 24 V	9.6 W
Permitted ambient conditions	
Ambient temperature	
• during operation	-40 +60 °C
<ul> <li>during storage</li> </ul>	-40 +70 °C
<ul> <li>during transport</li> </ul>	-40 +70 °C
Relative humidity	
• at 25 °C / without condensation / during	95 %
operation / maximum	
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	180 mm
Height	125 mm

Depth	123 mm
Net weight	1.65 kg
Mounting type	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
• 19-inch installation	No
<ul> <li>35 mm DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

Product properties, functions, components / genera	d in the second s
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 functions / management, configuration	
Product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
<ul> <li>TRAPs via email</li> </ul>	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
Port mirroring	Yes
<ul> <li>multiport mirroring</li> </ul>	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
	Yes
• SNMP v2	Yes
• SNMP v3	165
Product functions / Diagnosis	
Product function	
Port diagnostics	Yes
<ul> <li>Statistics Packet Size</li> </ul>	Yes
<ul> <li>Statistics packet type</li> </ul>	Yes
Error statistics	Yes
• SysLog	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	
<ul> <li>Ring redundancy</li> </ul>	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
	Yes
redundancy manager	

<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
	Yes
Passive listening Protocol / is supported	
STP/RSTP	Yes
	Yes
• STP	
• RSTP	Yes
• MSTP	No
<ul> <li>RSTP big network support</li> </ul>	Yes
• LACP	Yes
Product functions / Security	
Product function	
<ul> <li>ACL - MAC-based</li> </ul>	Yes
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
<ul> <li>IEEE 802.1x (radius)</li> </ul>	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	
<ul> <li>SICLOCK support</li> </ul>	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
<ul> <li>for hazardous zone</li> </ul>	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
<ul> <li>for hazardous zone / from CSA and UL</li> </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
FF	

No
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