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Data sheet

6GK5320-1BD00-2AA3

SCALANCE X320-1FE managed IE switch, 20x 10/100 Mbit/s RJ45 ports, 1x 100 Mbit/s SC Port multimode LED-diagnostics, error-signaling contact with Select/set pushbutton, PROFINET IO Device, network management, integrated redundancy manager, Office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery



Product type designation	SCALANCE X320-1FE	
Transfer rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	
Interfaces / for communication / Integrated		
Number of electrical connections		
• for network components or terminal equipment	20	
Number of 10/100 Mbit/s RJ45 ports / Integrated		
• with securing collar	20	
Number of 100 Mbit/s SC ports		
• for multimode	1	
Interfaces / other		
Number of electrical connections		
• for signaling contact	1	
• for power supply	1	
 for redundant voltage supply 	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 / minimum	18 V
external / maximum	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]	
• at DC / at 24 V	9.6 W
Ambient conditions	
Ambient temperature	
during operation	-40 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP30
Design, dimensions and weights	
Design Universions and weights	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
5	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 features, product functions, product components / general	
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)

caccading in cacco or clair topology	any (appointing only on digital propagation time)
Product functions / management, configuration, er	ngineering
Product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes
• TRAPs via email	Yes
Configuration with STEP 7	Yes
• RMON	Yes
Port mirroring	Yes
multiport mirroring	Yes
• CoS	Yes
 PROFINET IO diagnosis 	Yes
PROFINET conformity class	В
Product function / switch-managed	Yes
Protocol / is supported	
● Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
 I&M1 – higher-level designation/location designation 	Yes
Product functions / Diagnostics	
Product function	

Product functions / Diagnostics	
Product function	
 Port diagnostics 	Yes
 Statistics Packet Size 	Yes
Statistics packet type	Yes

Error statistics	Yes
• SysLog	Yes
SysLog	163
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
- Brior option or	1.00
Product functions / redundancy	
Product function	u.
Ring redundancy	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with 	Yes
redundancy manager	N.
 high speed redundancy protocol (HRP) with standby redundancy 	Yes
Protocol / is supported / Media Redundancy Protocol	Yes
(MRP)	
Product function	
 media redundancy protocol (MRP) with 	Yes
redundancy manager	
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
Parallel Redundancy Protocol (PRP)/operation	Yes
in the PRP-network	
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes

• MSTP	Yes
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	
 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
for safety / from CSA and 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
MTBF	25 y

Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
 Railway application in accordance with EN 50155 	No
• KC approval	Yes

Standards, specifications, approvals / CE

Standards, specifications, approvals / marine classification

Marine classification association

• American Bureau of Shipping Europe Ltd. (ABS)

Yes

Bureau Veritas (BV)

Yes

• Det Norske Veritas (DNV)

No

• Germanische Lloyd (GL)

No

• DNV GL

Yes

• Lloyds Register of Shipping (LRS)

Yes

• Nippon Kaiji Kyokai (NK)

Yes

Polski Rejestr Statkow (PRS)

No

• Royal Institution of Naval Architects (RINA)

• to website: Information and Download Center

Yes

Further information / Internet-Links

Internet-Link

• to website: Selector SIMATIC NET

http://www.siemens.com/snst

SELECTION TOOL

• to website: Industrial communication

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

• to website: Industry Mall

https://mall.industry.siemens.com

to website. Industry ivia

http://www.siemens.com/industry/infocenter

• to website: Image database

http://automation.siemens.com/bilddb

• to website: CAx Download Manager

http://www.siemens.com/cax

• to website: Industry Online Support

https://support.industry.siemens.com

Security information

Security information

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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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