SIEMENS

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 / maximum configuration for mod	interfaces / for communication / maximum configuration for modular devices				
number of electrical ports / maximum	20				
number of optical ports / maximum	1				
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				
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				
operational current / of the signaling contacts					
• at DC / maximum	0.1 A				
supply voltage, current consumption, power loss					
product component / connection for redundant voltage supply	Yes				
type of voltage supply / redundant power supply unit	No				
type of voltage / 1 / of the supply voltage	DC				
 supply voltage / 1 / rated value 	24 V				
 power loss [W] / 1 / rated value 	9.6 W				
 supply voltage / 1 / rated value 	18 32 V				
 consumed current / 1 / maximum 	0.4 A				
 type of electrical connection / 1 / for power supply 	4-pole terminal block				
 product component / 1 / fusing at power supply input 	Yes				
ambient conditions					
ambient temperature					
during operation	-40 +60 °C				

e during storage	40 ±70 °C			
during storageduring transport	-40 +70 °C -40 +70 °C			
	-40 +70 C			
 e at 25 °C / without condensation / during operation / 	95 %			
maximum	1020			
protection class IP design, dimensions and weights	IP30			
design	compact			
width	180 mm			
height	125 mm			
depth	123 mm			
net weight	1.65 kg			
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.			
• 19-inch installation	No			
 35 mm top hat DIN rail mounting 	Yes			
wall mounting	Yes			
 S7-300 rail mounting 	Yes			
S7-1500 rail mounting	No			
product features, product functions, product components / gene	eral			
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100			
cascading in cases of star topology	any (depending only on signal propagation time)			
product functions / management, configuration, engineering				
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 functions / diagnostics				
port diagnostics	Yes			
	Yes			
statistics Packet Size				
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 	Yes
manager	
 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
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
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
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 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1		
for emitted interference	EN 61000-6-4:2007 (Class A)		
 for interference immunity 	EN 61000-6-2:2005		
MTBF	25 a		
reference code			
 according to IEC 81346-2 	KF		
 according to IEC 81346-2:2019 	KFE		
standards, specifications, approvals / CE			
certificate of suitability / CE marking	Yes		
standards, specifications, approvals / hazardous environments			
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX		
	0145X		
• 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		
certificate of suitability			
 CCC / for hazardous zone according to GB standard 	Yes		
CCC / for hazardous zone according to GB standard / as	Ex nA IIC T4 Gc		
marking			
standards, specifications, approvals / other			
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007		
• C-Tick	Yes		
KC approval	Yes		
 railway application in accordance with EN 50155 	No		
standards, specifications, approvals / marine classification			
Marine classification association			
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes		
 French marine classification society (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)	Yes		
further information / internet links			
internet link			
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool		
to website: Industrial communication	http://www.siemens.com/simatic-net		
to website: Industry Mall	https://mall.industry.siemens.com		
to website: Information and Download Center	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	https://support.industry.siemens.com		
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a concection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)		
Approvals / Certificates			

Manufacturer Declara- tion		<u>Miscellaneous</u>	RCM	ATEX-Zone 2-Declara- tion	IECEx
For use in hazardous	locations		Declaration of Con	formity	
EM	<u>CCC-Ex</u>		CE EG-Konf.	EHC	UK CA
Declaration of Con- formity	Marine / Shipping				
<u>Manufacturer Declara-</u> tion	ABS	B U REAU VERITAS		Lloyds Register us	<u>NK / Nippon Kaiji Ky-</u> <u>okai</u>
Marine / Shipping		other	Environment		
RINA	DNV-GL EMISLCORE	PROFINET-Certifica- tion	000		
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