## **Data sheet**



SCALANCE X320-3LDFE managed IE switch, 20x 10/100 Mbit/s RJ45 ports, 1x 100 Mbit/s SC Port MM 2x 100 Mbit/s SC Port SM 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 supply.

product type designation	SCALANCE X320-3LD FE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	20
number of 10/100 Mbit/s RJ45 ports / integrated	
with securing collar	20
number of 100 Mbit/s SC ports	
<ul> <li>for multimode</li> </ul>	1
<ul><li>for single mode (LD)</li></ul>	2
interfaces / other	
number of electrical connections	
<ul> <li>for signaling contact</li> </ul>	1
for power supply	1
type of electrical connection	
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul><li>for power supply</li></ul>	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	
<ul><li>at DC / maximum</li></ul>	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
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	12 W
<ul><li>supply voltage / 1 / rated value</li></ul>	18 32 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.5 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
ambient conditions	
ambient temperature	
during operation	-40 +60 °C

	40
during storage	-40 +70 °C
during transport  relative hymidity	-40 +70 °C
relative humidity	05.0/
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP30
design, dimensions and weights	11 00
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
lasterning method	rail is not permitted.
• 19-inch installation	No
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	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)
product functions / management, configuration, engineeri	ng
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
<ul> <li>MIB support</li> </ul>	Yes
<ul> <li>TRAPs via email</li> </ul>	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
<ul> <li>port mirroring</li> </ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	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	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
<ul> <li>port diagnostics</li> </ul>	Yes
statistics Packet Size	Yes
• Statistics Facket Size	
statistics Packet Size     statistics packet type	Yes Yes

SysLog	Yes
product functions / VLAN	
product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
VLAN - protocol-based	No
VLAN - IP-based	No
<ul> <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	
DHCP client	Yes
<ul> <li>DHCP Option 82</li> </ul>	Yes
<ul> <li>DHCP Option 66</li> </ul>	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
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	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	V
ACL - MAC-based	Yes
ACL - port/MAC-based  ACL - port/MAC-based	Yes
IEEE 802.1x (radius)      Instantional limites	Yes
broadcast/multicast/unicast limiter     broadcast blocking	Yes Yes
broadcast blocking  protocol / is supported	1 53
SSH	Yes
product functions / time	165
product function	Yes
SICLOCK support  protocol / is supported	165
NTP	Yes
• NTP • SNTP	Yes
IEEE 1588 profile default	No
standards, specifications, approvals	
Standards, Specifications, approvais	

standard	FM2C444 Class 4 Divisor 2 October 4 D. O. D. (T4 Ol. 4 7 C.)
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
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	15 y
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 environn	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07
Standard / for Hazardous zone	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
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
KC approval	Yes
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
standards, specifications, approvals / marine classification	n
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	165
Internet-Link	hatta tha ann an a
to web page: selection aid TIA Selection Tool     to web site. Industrial communication.	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     to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager     to website: Industry Online Support	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information	
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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