SIEMENS

Data sheet

Product type designation

6GK5304-2BD00-2AA3



SCALANCE X304-2FE

SCALANCE X304-2FE MANAGED IE SWITCH; 4 X 10/100MBIT/S RJ45 PORTS; 2 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 / for communication / integrated	
Number of electrical connections	
 for network components or terminal equipment 	4
Number of 100 Mbit/s SC ports	
• for multimode	2
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
• 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	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	0.26 A
Power loss [W]	
• at DC / at 24 V	6.2 W
Permitted 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 	95 %
operation / maximum	
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	60 mm
Height	125 mm
Depth	123 mm
Net weight	0.7 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	
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
 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
 switch-managed 	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
 IGMP (snooping/querier) 	Yes
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location designation 	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
Product function	
 Port diagnostics 	Yes
Statistics Packet Size	Yes
 Statistics packet type 	Yes

Error statistics	Yes
• SysLog	Yes
Product functions / VLAN	
Product functions / VLAN	
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 manager 	Yes
 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	No
-	Yes
RSTP big network support	Yes
• LACP	165
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
Certificate of suitability / CE marking	Yes
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
 Certificate of suitability / C-Tick 	Yes
 Certificate of suitability / Railway application in accordance with EN 50155 	No
 Certificate of suitability / KC approval 	Yes
 Marine classification association / American Bureau of Shipping Europe Ltd. (ABS) 	No
 Marine classification association / Bureau Veritas (BV) 	No

 Marine classification association / Det Norske Veritas (DNV) 	Yes
 Marine classification association / Germanische Lloyd (GL) 	No
 Marine classification association / Lloyds Register of Shipping (LRS) 	Yes
 Marine classification association / Nippon Kaiji Kyokai (NK) 	Yes
 Marine classification association / Polski Rejestr Statkow (PRS) 	Yes
 Marine classification association / Royal Institution of Naval Architects (RINA) 	Yes
MTBF / at 40 °C	25 у
Further Information / Internet Links	
Internet-Link	
Internet-Link • to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Selector SIMATIC NET	http://www.siemens.com/snst http://www.siemens.com/simatic-net
• to website: Selector SIMATIC NET SELECTION TOOL	
 to website: Selector SIMATIC NET SELECTION TOOL to website: Industrial communication 	http://www.siemens.com/simatic-net
 to website: Selector SIMATIC NET SELECTION TOOL to website: Industrial communication to website: Industry Mall 	http://www.siemens.com/simatic-net https://mall.industry.siemens.com
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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/simatic-net http://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com Siemens provides products and solutions with industrial security

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http://support.automation.siemens.com. (V3.4)

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