SIEMENS

Data sheet

6GK5302-7GD00-2EA3

	device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,); C-plug in scope of delivery, 24 V DC redundant power supply unit.
product type designation	SCALANCE X302-7EEC
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
for network components or terminal equipment	2
number of 10/100/1000 Mbit/s RJ45 ports / integrated	2
number of 100 Mbit/s LC ports	
• for multimode	7
interfaces / other	
number of electrical connections	
for signaling contact	2
for power supply	2
type of electrical connection	
for signaling contact	2-pole terminal block
for power supply	2 x 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	Yes
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	17 W
supply voltage / 1 / rated value	19.2 57.6 V
consumed current / 1 / maximum	0.75 A
• type of electrical connection / 1 / for power supply	2 x 4-pole terminal block
product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
• note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
relative humidity	
• at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP30
design, dimensions and weights	
design	compact
width	216 mm
height	143 mm

depth 110 mm 2.03 kg net weight product feature / conformal coating No fastening method Wall mounting is possible only with an additional wall bracket; 19" mounting only with installation of two X-300EEC switches in pairs using a mounting plate • 19-inch installation • 35 mm top hat DIN rail mounting Yes wall mounting Yes • S7-300 rail mounting Yes • S7-1500 rail mounting Nο product features, product functions, product components / general 100 cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product function • CLI Yes Yes · web-based management • MIB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes Yes RMON Yes port mirroring multiport mirroring Yes Yes CoS • with IRT / PROFINET IO switch No • PROFINET IO diagnosis Yes В PROFINET conformity class 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 • port diagnostics Yes • statistics Packet Size Yes • 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	
	Yes	
DHCP Option 66 PHOR O. 17		
DHCP Option 67	Yes	
product functions / redundancy		
product function		
ring redundancy	Yes	
 High Speed Redundancy Protocol (HRP) 	Yes	
 high speed redundancy protocol (HRP) with 	Yes	
redundancy 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 NSTP redundancy procedure MSTP	Yes	
Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes	
Parallel Redundancy Protocol (PRP)/Redundant	No	
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 minicast miniter broadcast blocking	Yes	
•	Tes	
protocol / is supported	Voc	
• SSH	Yes	
product functions / time		
product function		
 SICLOCK support 	Yes	
protocol / is supported		
• NTP	Yes	
• SNTP	Yes	
 IEEE 1588 profile default 	Yes	
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 safety / from CSA and UL	UL 508	
	EN 61000-6-4:2007 (Class A)	
for emitted interference		
for emitted interference for interference immunity	EN 61000-6-2·2005	
• for interference immunity	EN 61000-6-2:2005	
• for interference immunity MTBF	EN 61000-6-2:2005 19.6 a	
 for interference immunity MTBF reference code 	19.6 a	
 for interference immunity MTBF reference code according to IEC 81346-2 	19.6 a KF	
 for interference immunity MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 	19.6 a	
for interference immunity MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 standards, specifications, approvals / CE	19.6 a KF KFE	
 for interference immunity MTBF reference code according to IEC 81346-2 according to IEC 81346-2:2019 	19.6 a KF	

• for EMC	IEC 61850, IEEE 1613	
standards, specifications, approvals / hazardous environn		
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4	
• from CSA and UL	ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, UL 1604 and 2279-15, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4	
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	
 railway application in accordance with EN 50124-1 	No	
• IEC 61850-3	Yes	
● IEEE 1613	Yes	
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		
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		
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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