SIEMENS

Data sheet

6GK5302-7GD00-4EA3

Product type designation



SCALANCE X302-7EEC

SCALANCE X302-7EEC; MANAGED IE SWITCH, COMPACT; 2 X 10/100/1000MBIT/S RJ45; 7 X 100MBIT/S LC FO PORTS; 100 - 240V AC/DC REDUNDANT POWER SUPPLY; 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 SCOPE OF SUPPLY

Transmission 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 100 Mbit/s SC ports		
• for multimode	0	
Number of 1000 Mbit/s LC ports		
• for multimode	0	
• for single mode (LD)	7	
Interfaces / others		
Number of electrical connections		
 for signaling contact 	2	
• for power supply	1	
 for redundant voltage supply 	1	
Type of electrical connection		
• for signaling contact	3-pole terminal block	

• for power supply	2 x 3-pole terminal block
design of the removable storage	
• C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
at AC / Rated value	276 V
• at DC / Rated value	230 V
Operating current / of the signaling contacts	
• at AC / maximum	5 A
• at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage supply / redundant power supply unit	Yes
Type of voltage / of the supply voltage	AC
Supply voltage	
• at AC	230 V
• at AC / rated value	80 276 V
Supply voltage / 2 / Rated value	
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / at DC	220 V
• rated value	46.25 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	T 2 A / 250 V
Consumed current / maximum	0.08 A
Power loss [W]	
• at AC / at 230 V	18 W
• at DC / at 250 V	18 W
Permitted 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 	95 %
operation / maximum	
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	216 mm
Height	143 mm

Depth	110 mm
Net weight	2.12 kg
Product feature / conformal coating	No
Mounting type	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	Yes
• 35 mm DIN rail mounting	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
• S7-1500 rail mounting	No

Product properties, functions, 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	
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
 with IRT / PROFINET IO switch 	No
 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	

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1&M0 - device-specific information	Yes
I&M1 – higher-level designation/location	Yes
designation	
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 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 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
 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	Yes
Standards, specifications, approvals	
Standard	
• for FM	-
• for hazardous zone	-
• for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
for hazardous zone / from CSA and UL	-
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005

Certificate of suitability / CE marking	Yes
Standard	
• for EMC	IEC 61850, IEEE 1613
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	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
KC approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	No
Royal Institution of Naval Architects (RINA)	No
MTBF / at 40 °C	15.3 y

Further Information / Internet Links

Internet-Link	
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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/snst

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

https://mall.industry.siemens.com

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

 $\underline{\text{http://automation.siemens.com/bilddb}}$

 $\underline{\text{http://www.siemens.com/cax}}$

https://support.industry.siemens.com

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