SIEMENS

Product data sheet 6GK5302-7GD00-3EA3

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 - 240 V AC/DC 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 / 1 10 Mbit/s
Transfer rate / 2 100 Mbit/s

Transfer rate / 3

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum

Number of electrical connections

for network components and terminal equipment

for signaling contact

• for power supply

Design of electrical connection

• for network components and terminal equipment RJ45 port

• for signaling contact

3-pole terminal block

• for power supply 3-pole terminal block

Number of optical interfaces / for optical waveguide

at 100 Mbit/s

Design of optical interface / for optical waveguide

• at 100 Mbit/s LC port (multimode up to 5 km)

Connectable optical power relative to 1 mW

9

2

1

1

7

	40 44 ID
of the transmitter output	-1914 dB
of the receiver input / maximum	-14 dB
Optical sensitivity relative to 1 mW / of the receiver input / minimum	-32 dB
Attenuation / of fiber-optic cable transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 5 km
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of signaling contacts / at AC / rated value	276 V
Operating current / of signaling contacts / at AC / maximum	5 A
Operating voltage / of signaling contacts / at DC / rated value	230 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of supply voltage / redundant power supply unit	No
Type of / supply voltage	AC
Supply voltage	
• at AC	230 V
rated value	80 276 V
Type / 2 / of supply voltage	DC
Supply voltage / for DC	220 V
rated value	46.25 300 V
Product component / fusing at power supply input	Yes
Type of fusing / at input for supply voltage	T 2 A / 250 V
Consumed current / maximum	0.08 A
Power loss	
• at 230 V / AC	18 W
• at 250 V / with DC	18 W
Permitted ambient conditions	
Ambient temperature	
during operating	-40 +70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
Comment	A maximum operating temperature of +85 $^{\circ}\text{C}$ is permissible for a duration of 16 hours
Relative humidity	
\bullet at 25 $^{\circ}\text{C}$ / without condensation / during operating / maximum	95 %
Ambient condition	
for (standard) operation mode	Conformal coating, no
Protection class IP	IP30
Design, dimensions and weight	

compact Design Width 216 mm 143 mm Height Depth 110 mm Net weight 1.85 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting Yes • wall mounting Yes • S7-300 rail mounting Yes Wall mounting is possible only with an additional wall bracket; 19" Mounting type mounting only with installation of two X-300EEC switches in pairs using a mounting plate

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
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
for 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
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes

• GMRP	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	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 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
Redundancy manager	Yes
Standby redundancy	Yes
High Speed Redundancy Protocol (HRP)	Yes
Media Redundancy Protocol (MRP)	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
redundancy procedure MSTP	Yes
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes

• STP	Yes
• RSTP	Yes
RSTP big network support	Yes
• LACP	Yes
Product functions / Security	
Product function	
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
• MSTP	No
IEEE 1588 profile default	Yes
Standards, specifications, approvals	
Standard	
Standard • for EMC	IEC 61850, IEEE 1613
	IEC 61850, IEEE 1613
• for EMC	
• for EMC • from FM	-
for EMCfrom FMfor hazardous zone	-
 for EMC from FM for hazardous zone for safety / of CSA and UL 	-
 for EMC from FM for hazardous zone for safety / of CSA and UL for hazardous area / of CSA and UL 	- - UL 508, CSA C22.2 No. 142-M1987 -
 for EMC from FM for hazardous zone for safety / of CSA and UL for hazardous area / of CSA and UL for emitted interference 	
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• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

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Security information

Security information

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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)

letzte Änderung:

Aug 9, 2014