6GK5224-4GS00-2TC2

Data sheet



SCALANCE XC224-4C G (E/IP) managed Layer 2 IE switch; IEC 62443-4-2 certified; Full Gigabit; 20x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps/ SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall; redundancy functions; Office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot; Default EtherNet/IP

product type designation	SCALANCE XC224-4C G (E/IP def.)	
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 	24; RJ45	
number of 10/100/1000 Mbit/s RJ45 ports / integrated	24	
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 1000 MBit/s SFPs	
interfaces / for communication / plug-in		
number of electrical connections		
• for SFP	4	
interfaces / other		
number of electrical connections		
 for operator console 	1	
 for signaling contact 	1	
for power supply	1	
type of electrical connection		
 for operator console 	RJ11	
 for signaling contact 	2-pole terminal block	
for power supply	3-pole terminal block, permanently installed	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
at DC / rated value	24 V	
supply voltage, current consumption, power loss		
type of voltage / 1 / of the supply voltage	DC	
supply voltage / 1 / rated value	24 V	
power loss [W] / 1 / rated value	16.8 W	
 consumed current / 1 / at rated supply voltage / maximum 	0.7 A	
supply voltage / 1 / rated value	9.6 31.2 V	
 product component / 1 / fusing at power supply input 	Yes	
ambient conditions		
ambient temperature		
during operation	-40 +70 °C	

- during storage - during transport relative humidity - at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design width - 140 mm height - 150 mm depth - 125 mm net weight - 1.3 kg material / of the enclosure fastening method - 35 mm top hat DIN rail mounting - wall mounting - S7-300 rail mounting - Yes - Cascading in the case of a redundant ring / at reconfiguration time of '-S0-30-s - any (depending only on signal propagation time) - Yes - Transpar with signal propagation time) - Yes - Store & Forward switching method - Yes - Store & Forward switching method - Yes - TRAPs via email - Coffiguration with STEP 7 - RNON - SMTP server - No - SMTP server - No - PROFINET I od diagnosis - PROFINET conformity class - B	
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CoSPROFINET IO diagnosisYes	
PROFINET IO diagnosis Yes	
PROFINET conformity class	
network load class / acc. to PROFINET 3	
product function / switch-managed Yes	
telegram length / for Ethernet / maximum 10240 byte	
protocol / is supported	
• Telnet Yes	
• HTTP Yes	
• HTTPS Yes	
• TFTP Yes	
• BOOTP No	
• GMRP Yes	
• DCP Yes	
• LLDP Yes	
• EtherNet/IP Yes	
• SNMP v1 Yes	
• SNMP v2 Yes	
• SNMP v3	
• IGMP (snooping/querier) Yes	
identification & maintenance function	

1&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
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
protocol / is supported / GVRP	Yes
	165
product functions / DHCP	
product function	
DHCP server	Yes
DHCP client	Yes
DHCP Option 82	Yes
 DHCP Option 66 	Yes
DHCP Option 67	Yes
product functions / redundancy	
product function	
 of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes
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
 Media Redundancy Protocol Interconnection (MRP-I) 	Yes
 of the PROFINET IO device / is supported / H-Sync forwarding 	Yes
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	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	
• LACP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
broadcast/multicast/unicast limiter	Yes
broadcast blocking	Yes
protocol / is supported	
protocor/ to oupported	

• SSH	Yes	
• SSL	Yes	
product functions / time		
product function		
 SICLOCK support 	Yes	
NTP-client	Yes	
SNTP client	Yes	
protocol / is supported		
• NTP	Yes	
• SNTP	Yes	
system modification during operation		
product function / configuration in RUN via CiR/H-CiR	Yes	
standards, specifications, approvals		
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes	
MTBF	20 y	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
product conformity / according to EMC-guideline	2014/30/EU	
standard		
 for EMC interference emission 	EN 61000-6-4, EN 50121-18	
for immunity to EMC	EN 61000-6-2, EN 50121-4	
certificate of suitability / RoHS conformity	Yes; 2011/65/EU	
standards, specifications, approvals / hazardous environments		
certificate of suitability		
 CCC / for hazardous zone according to GB standard 	Yes	
accessories		
product extension / optional / C-PLUG	Yes	
further information / internet-Links		
Internet-Link		
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool	
last modified:	7/1/2021 🗗	