SIEMENS

Data sheet

6GK5224-4GS00-2FC2



SCALANCE XC224-4C G EEC 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; with painted printed circuit boards NAMUR NE21-compliant; 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;

Product type designation	SCALANCE XC224-4C G EEC
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; 1000 MBit/s
Interfaces / other	
Number of electrical connections	
• for operator console	1
• for signaling contact	1
• for power supply	1

 for redundant voltage 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
Cional innutale to the sta	
Signal inputs/outputs	

Operating voltage / of the signaling contacts

24 V • at DC / Rated value

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
external / minimum	9.6 V
• external / maximum	31.2 V
Supply voltage / 4 / Rated value	
 Consumed current / 4 / at rated supply voltage / maximum 	0.7 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 125 V
Power loss [W]	
• at DC / at 24 V	16.8 W

Ambient conditions	
Ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C
• during transport	-40 +85 °C
Relative humidity	
 at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20

Design, dimensions and weights	
Design	compact
Width	140 mm
Height	150 mm
Depth	125 mm
Net weight	1.3 kg
Product feature / conformal coating	Yes
Material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
Mounting type	

• 35 mm DIN rail mounting	Yes
• wall mounting	No
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes

Product features, product functions, product components / general	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)
Product function / QoS according to DSCP	Yes
Product feature	
 Cut Through switching method 	No
 Store & Forward switching method 	Yes

Product function Yes • Web-based management Yes • MIB support Yes • TRAPs via email Yes • Configuration with STEP 7 Yes • RMON Yes • SMTP server No • Port mirroring Yes • Port mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP No • GMRP Yes • LLDP Yes	Product functions / management, configuration, engineering	
 web-based management MIB support TRAPs via email Configuration with STEP 7 RMON SMTP server Port mirroring multiport mirroring PROFINET IO diagnosis PROFINET conformity class PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTPS HTTPS SYes FTFP BOOTP GMRP DCP 	Product function	
MIB support TRAPs via email Configuration with STEP 7 Yes RMON SMTP server Port mirroring multiport mirroring Yes PROFINET IO diagnosis Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTP HTTP SMOTP BOOTP BOOTP GMRP COR Yes Yes Yes Yes Yes Yes Yes Ye	• CLI	Yes
TRAPs via email Configuration with STEP 7 Yes RMON SMTP server Port mirroring Yes multiport mirroring Yes PROFINET IO diagnosis Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTP HTTP SMON SMTP server No Yes Yes Yes Yes Yes Yes PROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum Yes HTTP Yes HTTP Yes HTTPS Yes OFFIP BOOTP OGMRP Yes Yes POCP Yes	web-based management	Yes
Configuration with STEP 7 RMON SMTP server No Port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTPS HTTPS TETP BOOTP BOOTP GMRP OR Ves Yes Yes Yes Yes Yes Yes Yes	 MIB support 	Yes
 RMON SMTP server Port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTP HTTPS TFTP BOOTP GMRP DCP 	 TRAPs via email 	Yes
SMTP server Port mirroring multiport mirroring Cos PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed Yes Protocol / is supported Telegram length / for Ethernet / maximum Yes HTTP HTTP Yes HTTPS Yes FROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum Yes HTTP Yes HTTP Yes HTTPS Yes FROFINET Conformity class B Product function / switch-managed Yes Yes HTTPS Yes FROFINET Conformity class B Product function / switch-managed Yes No HEID Yes FROFINET Conformity class B Product function / switch-managed Yes Yes Yes FROFINET Conformity class B Product function / switch-managed Yes Product function / switch-managed Yes	 Configuration with STEP 7 	Yes
 Port mirroring multiport mirroring CoS Yes PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum Protocol / is supported Telnet HTTP HTTPS HTTPS TFTP BOOTP GMRP DCP 	• RMON	Yes
 multiport mirroring Cos PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported Telnet Yes HTTP HTTPS HTTPS Yes TFTP BOOTP GMRP DCP Yes 	SMTP server	No
• CoS Yes • PROFINET IO diagnosis Yes PROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP No • GMRP Yes • DCP Yes	Port mirroring	Yes
 PROFINET IO diagnosis PROFINET conformity class B Product function / switch-managed Yes Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported Telnet Yes HTTP HTTPS TFTP BOOTP GMRP DCP 	 multiport mirroring 	Yes
PROFINET conformity class Product function / switch-managed Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • TFTP • BOOTP • GMRP • DCP PROFINET conformity class B B Product function / switch-managed Yes 1632 byte Yes Yes Yes No Yes Yes Yes Yes POCP	• CoS	Yes
Product function / switch-managed Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported • Telnet • HTTP • HTTPS • TFTP • BOOTP • GMRP • DCP Yes Yes Yes Yes Yes Yes Yes Ye	 PROFINET IO diagnosis 	Yes
Telegram length / for Ethernet / maximum 1632 byte Protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP No • GMRP Yes • DCP Yes	PROFINET conformity class	В
Protocol / is supported Telnet Yes HTTP Yes HTTPS Yes TFTP Yes BOOTP BOOTP GMRP DCP Yes Yes Yes Yes	Product function / switch-managed	Yes
 Telnet HTTP HTTPS HTTPS Yes TFTP BOOTP GMRP DCP Yes Yes Yes Yes Yes Yes Yes 		1632 byte
 HTTP HTTPS Yes TFTP BOOTP GMRP DCP Yes Yes Yes Yes Yes 	Protocol / is supported	
 HTTPS TFTP BOOTP GMRP DCP Yes Yes Yes Yes Yes 	● Telnet	Yes
 TFTP BOOTP GMRP DCP Yes Yes Yes 	• HTTP	Yes
 BOOTP GMRP DCP No Yes Yes 	• HTTPS	Yes
• GMRP • DCP Yes Yes	• TFTP	Yes
• DCP Yes	• BOOTP	No
	• GMRP	Yes
• LLDP Yes	• DCP	Yes
	• LLDP	Yes
• EtherNet/IP Yes	• EtherNet/IP	Yes
• SNMP v1 Yes	• SNMP v1	Yes
• SNMP v2 Yes	• SNMP v2	Yes
• SNMP v3 Yes	• SNMP v3	Yes

• IGMP (snooping/querier)	Yes
Identification & maintenance function	
I&M0 - device-specific information	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
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
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 (S2) 	Yes
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
 of the PROFINET IO device / is supported / H- Sync forwarding 	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	
• LACP	Yes
Draduat functions / Courity	
Product functions / Security Product function	
• IEEE 802.1x (radius)	Yes
Broadcast/Multicast/Unicast Limiter	Yes
broadcast blocking	Yes
Protocol / is supported	
• SSH	Yes
• SSL	Yes
Draduct functions / time	
Product functions / time Product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
Contains and differentials designs are well as	
System modification during operation Product function / configuration in RUN via CiR/H-	Yes
CiR	
Ctandarda anasificationa annesvala	
Standards, specifications, approvals Security for industrial automation and control	Yes
systems / acc. to IEC 62443-4-2:2019	
MTBF	20 y
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Product conformity / according to EMC-guideline	2014/30/EU
Standard	

EN 61000-6-4, EN 50121-17 • for EMC interference emission EN 61000-6-2, EN 50121-17 • for immunity to EMI Certificate of suitability / RoHS conformity Yes; 2011/65/EU

05/19/2020 last modified: