SIEMENS

Data sheet

6GK5224-0BA00-2AC2



SCALANCE XC224 manageable Layer 2 IE switch; IEC 62443-4-2 certified; 24x 10/100 Mbit/s RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device Ethernet/IP-compliant, C-plug slot;

transfor rate 10 Mbit/s 100 Mbit/s Terrafeces / for communication / maximum configuration for motular devices number of electrical connections • for network components or terminal equipment 24 number of electrical connections 24 • for network components or terminal equipment 24 number of electrical connections 24 • for operator console 1 • for operator console 24 pole terminal block • for operator console 24 V • operating voltage / of the signaling contacts 4 pole terminal block • at DC / rated value 0.1 A supply voltage / 1 / rated value 24 V • at DC / maximum 0.1 A	product type designation	SCALANCE XC224				
interfaces / for communication / maximum configuration for modular devices number of electrical ports / maximum 24 interfaces / for communication / integrated number of electrical connections • for network components or terminal equipment 24; RJ45 number of 10/100 Mbit/s RJ45 ports / integrated 24 • with securing collar 24 interfaces / other 24 number of electrical connections 1 • for operator console 1 • for operator console 1 • for operator console RJ11 • for operator console RJ11 • for operator console RJ11 • for operator console Ves • for opere supply 4-pole terminal block design of the removable storage - • C-PLUG Yes operating voltage / of the signaling contacts - • at DC / rated value 24 V operating voltage / 11 / of the supply voltage DC • supply voltag	transfer rate					
number of electrical ports / maximum 24 interfaces / for communication / integrated	transfer rate	10 Mbit/s, 100 Mbit/s				
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• fuse protection type / 1 / at input for supply voltage 2.5 A / 125 V ambient conditions ambient temperature	 type of electrical connection / 1 / for power supply 	4-pole terminal block				
ambient conditions ambient temperature	 product component / 1 / fusing at power supply input 	Yes				
ambient temperature	 fuse protection type / 1 / at input for supply voltage 	2.5 A / 125 V				
	ambient conditions					
• during operation -40 +70 °C	ambient temperature					
	during operation	-40 +70 °C				

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during storage	-40 +85 °C
during storage	-40 +85 °C
during transport	-10 C0 T 0H-
 e at 25 °C / without condensation / during operation / 	95 %
maximumprotection class IP	1000
•	IP20
design, dimensions and weights	
design	compact
width	120 mm
height	147 mm
depth	125 mm
net weight	0.88 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
 S7-300 rail mounting 	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components / gene	ral
cascading in the case of a redundant ring / at reconfiguration time of <\ 0.3 \~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function / QoS according to DSCP	Yes
product function / QOS according to DSCP	
Cut Through switching method	No
Store & Forward switching method	Yes
product functions / management, configuration, engineering	
product function • CLI	Yes
	Yes
web-based management	Yes
 MIB support TRAPs via email 	Yes
	Yes
 configuration with STEP 7 RMON 	
SMTP server	Yes
	No
port mirroring	Yes
• multiport mirroring	Yes
	Yes
PROFINET IO diagnosis	Yes B
PROFINET conformity class	
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	Van
• 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	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 - higher level designation/location designation 	Yes
product function	
 is supported / identification link 	Yes; according to IEC 61406-1:2022



product functions / diagnostics	
product function	
port diagnostics	Yes
statistics Packet Size	Yes
statistics racket type	Yes
error statistics	Yes
• SysLog	Yes
product functions / VLAN	
product function	
VLAN - port based	Yes
	No
 VLAN - protocol-based VLAN - IP-based 	No
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	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 functions / redundancy	
• of the PROFINET IO device / is supported / PROFINET	Yes
system redundancy	
 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	
• SSH	Yes
• SSL	Yes
product functions / time	
product function	
SICLOCK support	Yes



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• NTP client	Voc		
NTP-client SNTP client	Yes		
• SNTP client protocol / is supported	100		
NTP	Yes		
• SNTP	Yes		
system modification during operation			
product function / configuration in RUN via CiR/H-CiR	Yes		
standards, specifications, approvals			
standard			
• for FM	FM19US0167X		
IT security for industrial automation systems / according to IEC	Yes		
62443-4-2:2019			
MTBF	41 a		
reference code			
 according to IEC 81346-2 	KF		
according to IEC 81346-2:2019	KFE		
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 50121-4		
• 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			
• ATEX	Yes; EN 60079-0, EN 60079-15		
• for ATEX / as marking	II 3 G Ex nA II T4 Gc		
for ATEX / as certificate	KEMA 07ATEX0145 X		
• IECEx	Yes; IEC 60079-0, IEC 60079-15		
• for IECEx / as marking	Ex nA II T4 Gc		
• for IECEx / as certificate	IECEX DEK 14.0025X		
CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8		
 CCC / for hazardous zone according to GB standard / as marking 	Ex nA IIC T4 Gc		
 for cULus HazLoc / as marking 	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4		
• for cULus HazLoc / as File Nr.	E240480 (NWHP, NWHP7)		
• FM registration	Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004		
• for FM / as marking	CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C		
 for FM / as certificate 	FM16US0205X		
standards, specifications, approvals / other			
certificate of suitability			
 railway application in accordance with EN 50121-4 	Yes		
 Regulatory Compliance Mark (RCM) 	Yes		
• for UL 61010-2-201 / as File Nr.	E85972 (NRAQ, NRAQ7)		
• for UL 60950-1 / as File Nr.	E115352 (NWGQ, NWGQ7)		
EAC approval	Yes		
standards, specifications, approvals / marine classification			
Marine classification association			
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes		
 French marine classification society (BV) 	Yes		
• DNV GL	Yes		
 Korean Register of Shipping (KRS) 	Yes		
 Lloyds Register of Shipping (LRS) 	Yes		
 Nippon Kaiji Kyokai (NK) 	Yes		
 Polski Rejestr Statkow (PRS) 	Yes		
Royal Institution of Naval Architects (RINA)	Yes		
standards, specifications, approvals / Environmental Product De	eclaration		
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq] / total	441.1 kg		



Global Warming Pote manufacturing	ential [CO2 eq] / durir	ng	47.67 kg		
manufacturing Global Warming Potential [CO2 eq] / during operation		392.82 kg			
global warming rotential [CO2 eq] / during operation		0.57 kg			
accessories					
product extension / optional	I / C-PLUG		Yes		
further information / interne	et links				
internet link					
 to web page: selection aid TIA Selection Tool 		http://www.siemens.com/tia-selection-tool			
 to website: Industrial 	• to website: Industrial communication			net	
 to website: Industry N 	Vall		https://mall.industry.siemens.com		
 to website: Information 	on and Download Cer	nter	http://www.siemens.com/industry	<u>//infocenter</u>	
 to website: Selection 	guide for cables and	connectors	https://sie.ag/2QdlxcP		
 to website: Image data 	tabase		http://automation.siemens.com/b	<u>ilddb</u>	
 to website: CAx-Dow 	0		http://www.siemens.com/cax		
 to website: Industry C 	Online Support		https://support.industry.siemens.	<u>com</u>	
security information					
		it is necessary to implement – and continuously maintain – a holistic, state-of- the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)			
Approvals / Certificates				_	
General Product Approva	al	EMC	For use in hazardous lo	ocations	
<u>Manufacturer Declara-</u> tion	(U) u	RCM	ATEX-Zone 2-Declara- tion	IECEx IECEx	EM
For use in hazardous loca	ations	Declaration of	Conformity		
<u>CCC-Ex</u>	(U) u	CE EG-Konf.	<u>Manufacturer Declara-</u> <u>tion</u>	UK CA	<u>Miscellaneous</u>
Marine / Shipping					
ABS	BUREAU VERITAS	Llovds Register us	<u>NK / Nippon Kaiji Ky-</u> <u>okai</u>	PRS	RINA
Marine / Shipping		other	Environment		
DNV-GL		PROFINET-Cer tion	tifica- 000 000		



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