



SCALANCE XC224-4C G manageable 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; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-PLUG slot; IEEE 1588v2 PTP

product type designation	
product brand name	SCALANCE
product type designation	XC224-4C G
Technical Product Detail Page	https://i.siemens.com/1P6GK5224-4GS00-2AC2
transfer rate	
transfer rate	10, 100, 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	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
operating voltage / of the signaling contacts	
• at DC / rated value	24 V
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	
• supply voltage / 1 / rated value	DC
• power loss [W] / 1 / rated value	24 V
• supply voltage / 1 / voltage range	16.8 W
• consumed current / 1 / maximum	9.6 ... 31.2
• type of electrical connection / 1 / for power supply	0.7 A
• product component / 1 / fusing at power supply input	3-pole terminal block, permanently installed
• fuse protection type / 1 / at input for supply voltage	Yes
	3,15 A / 125 V
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	
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum	
fastening method		
● 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 reconfiguration time of <1~0.3s	50	
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 functions / management, configuration, engineering		
product function		
● CLI	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	
● multiport mirroring	Yes	
● CoS	Yes	
● PROFINET IO diagnosis	Yes	
● switch-managed	Yes	
PROFINET conformity class	B	
network load class / according to PROFINET	III	
telegram length / for Ethernet / maximum	10240 byte	
protocol / is supported		
● Telnet	Yes	
● HTTP	Yes	
● HTTPS	Yes	
● TFTP	Yes	
● SFTP	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 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
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
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	
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
• of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
• ring redundancy	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	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
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
• RADIUS client	Yes
• broadcast/multicast/unicast limiter	Yes

• broadcast blocking protocol / is supported • SSH • SSL	Yes Yes Yes
product functions / time	
product function • SICLOCK support • NTP-client • SNTP client	Yes Yes Yes
protocol / is supported • NTP • SNTP • IEEE 1588 profile default	Yes Yes Yes
standards, specifications, approvals	
certificate of suitability • CE marking • cULus approval • KC approval	Yes Yes Yes
product conformity / according to EMC-guideline	2014/30/EU
standard • for EMC interference emission • for immunity to EMC • for safety / from CSA and UL	EN 61000-6-4, EN 50121-4 EN 61000-6-2, EN 50121-4 UL 60950-1 E115352, UL-61010-2 E85972
standards, specifications, approvals / hazardous environments	
certificate of suitability • ATEX • UKEX • IECEx • ULhazloc approval • CCC / for hazardous zone according to GB standard • FM registration	Yes Yes Yes Yes Yes Yes
standards, specifications, approvals / other	
certificate of suitability • railway application in accordance with EN 50121-4 • RoHS conformity	Yes Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / marine classification	
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Chinese Classification Society (CCS) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statków (PRS) • Royal Institution of Naval Architects (RINA)	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq] • total • during manufacturing • during operation • after end of life	339.9 kg 57.33 kg 281.79 kg 0.76 kg
product functions / general	
MTBF	20 a

warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. 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 Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>

Approvals / Certificates

General Product Approval



[China RoHS](#)



[TUEV](#)

EMV	For use in hazardous locations	Test Certificates
	 IECEx	 ATEX

Maritime application
 AMERICAN BUREAU OF SHIPBUILDING BUREAU VERITAS DNV LRS NK / Nippon Kaiji Kyokai PRIS

Maritime application	Environment	Industrial Communication
 RINA CCS (China Classification Society) KOREAN REGISTER OF SHIPS EPD PROFINET		

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