



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
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	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	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	16.8 W
• supply voltage / 1 / rated value	9.6 ... 31.2 V
• consumed current / 1 / maximum	0.7 A
• type of electrical connection / 1 / for power supply	3-pole terminal block, permanently installed
• product component / 1 / fusing at power supply input	Yes
• fuse protection type / 1 / at input for supply voltage	3.15 A / 125 V
ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C

- during storage - 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 - wall mounting - S7-300 rail mounting - S7-1500 rail mounting	Yes No Yes Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.3~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function QoS according to DSCP	Yes
product feature - Cut Through switching method - Store & Forward switching method	No Yes
product functions / management, configuration, engineering	
product function - CLI - web-based management - MIB support - TRAPs via email - configuration with STEP 7 - RMON - SMTP server - port mirroring - multiport mirroring - CoS - PROFINET IO diagnosis - switch-managed	Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported - Telnet - HTTP - HTTPS - TFTP - SFTP - BOOTP - GMRP - DCP - LLDP - EtherNet/IP - SNMP v1 - SNMP v2 - SNMP v3 - IGMP (snooping/querier)	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes 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	Yes
protocol / is supported	
• SSH	Yes
• SSL	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	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) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	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
reference code	
• according to IEC 81346-2 • according to IEC 81346-2:2019	KF KFE
Warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net

- to web page: SiePortal
- to website: Image database
- to website: CAX-Download-Manager
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security information

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General Product Approval



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EMV

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