



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;

product type designation	
product brand name	SCALANCE
product type designation	XC224
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	24; RJ45
number of 10/100 Mbit/s RJ45 ports	
• with securing collar	24
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	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
operating voltage / of the signaling contacts	
• at DC / rated value	24 V
operational current / of the signaling contacts	
• at DC / maximum	0.1 A
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	9 W
• consumed current / 1 / at rated supply voltage / maximum	0.375 A
• supply voltage / 1 / rated value	9.6 ... 31.2 V
• consumed current / 1 / maximum	0.75 A
• type of electrical connection / 1 / for power supply	4-pole terminal block
• product component / 1 / fusing at power supply input	Yes
• fuse protection type / 1 / at input for supply voltage	2.5 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	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 / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.31~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	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
telegram length / for Ethernet / maximum	1632 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	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 • statistics Packet Size • statistics packet type • error statistics • SysLog	Yes Yes Yes Yes Yes
product functions / VLAN	
product function	
• VLAN - port based • VLAN - protocol-based • VLAN - IP-based	Yes No 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 • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67	Yes Yes Yes Yes Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • of the PROFINET IO device / is supported / PROFINET system redundancy • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP+ • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes No 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) • broadcast/multicast/unicast limiter • broadcast blocking	Yes Yes Yes
protocol / is supported	
• SSH • SSL	Yes Yes
product functions / time	
product function	
• SICLOCK support • NTP-client • SNTP client	Yes Yes Yes
protocol / is supported	

• NTP • SNTP	Yes Yes
standards, specifications, approvals	
certificate of suitability	
• CE marking • Regulatory Compliance Mark (RCM)	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
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
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) • 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	441.1 kg 47.67 kg 392.82 kg 0.57 kg
product functions / general	
MTBF	41 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; according 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 • 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://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	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

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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)


EG-Konf.

[Declaration of Conformity](#)




UL

[Declaration of Conformity](#)

General Product Approval

EMV

For use in hazardous locations


RCM


TUV

[KC](#)


IECEx


ATEX

[EM](#)

For use in hazardous locations

Marine / Shipping

[CCC-Ex](#)


ABS




DNV


LRS

[NK / Nippon Kaiji Kyokai](#)

Marine / Shipping

Environment

Industrial Communication


PRS


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