6GK5224-0BA00-2AC2





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

product type designation	SCALANCE 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 / integrated	
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
signal inputs/outputs	
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
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 / 	95 %
maximum	
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 <\~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 	No
 Store & Forward switching method 	Yes
product functions / management, configuration, engineeri	ng
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
PROFINET conformity class	В
product function / switch-managed	Yes
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	

- 19 MO device energia information	Ves
I&M0 - device-specific information I&M4 - higher level designation (see time designation)	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	V
port diagnostics Activities Postert Circumstance	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
VLAN dynamic	Yes
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 	Yes
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

product functions / time product function		
product functions / time product function • SICLOCK support • SICLOCK support • SITP client • SNTP client • SNTP client • SNTP client • SNTP • Yes • SUTING • Or SECULATION • Or Industrial unomation systems / according to EMC-guideline • Industrial systems in a supportation of the systems of the sy	protocol / is supported	
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SICLOCK support NTP-client Yes SNTP delent Yes SNTP System modification during operation protocol / is supported NTP SNTP System modification, approvals IT security for industrial automation systems / according to EC 62443-42:2019 MTBE IT security for industrial automation systems / according to EC 62443-42:2019 MTBE Standards, specifications, approvals IT security for industrial automation systems / according to EC 62443-42:2019 MTBE 41 y Standards, specifications, approvals / EC certificate of suitability / EC marking product conformity / according to EMC-guideline Standard • for EMC interference emission • for EMC interference emission • for fimmunity to EMC EN 61000-6-4, EN 50121-4 EN 61000-6-2, EN 50121-4 Certificate of suitability / RoHS conformity Standards, specifications, approvals / hazardous environments Certificate of suitability / RoHS conformity • for ATEX / as marking • for ATEX / as certificate • for IECEx / as certificate • for IECEx / as certificate • CCC / for hazardous zone according to GB standard • for cULus HazLoc / as File Nr. • File registration • for FM / as marking • for CULus HazLoc / as File Nr. • File registration • for FM / as marking • for FM / as certificate • for ICCEx / for Nazardous zone according to GB standard • for CULus HazLoc / as File Nr. • FM registration • for FM / as marking • for ICCEx / for Nazardous zone according to GB standard • for CULus HazLoc / as File Nr. • FM registration • for ICCEx / for Nazardous zone according to GB standard • for GULus HazLoc / as File Nr. • FM registration • for ICCEx / for Nazardous zone according to GB standard • for CUL 60950-1 / as File Nr. • for ICCEx / for Nazardous zone according to GB standard • for HM / as certificate • for ICCEx / for Nazardous zone according to GB standard • for HM / as certificate • for ICCEx / for Nazardous zone according to GB standard • for HM / as certificate • for ICCEx / for Nazardous zone according to GB s	product functions / time	
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IT security for industrial automation systems / according to IEC 62443-4-22019 ### MTBF ### 41 y ### Standards, specifications, approvals / CE certificate of suitability / CE marking	product function / configuration in RUN via CiR/H-CiR	Yes
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• ATEX • for ATEX / as marking • for ATEX / as extificate • for ATEX / as certificate • for ATEX / as certificate • for ATEX / as certificate • For IECEx • for IECEx / as marking • for IECEx / as marking • for IECEx / as certificate • CCC / for hazardous zone according to GB standard • for cULus HazLoc / as marking • for cULus HazLoc / as marking • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as certificate • for FM / as redificate • for FM / as redificate **Standards**, **specifications**, **approvals / other** **certificate of suitability • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 61010-2-201 / as File Nr. • FM Class Signary • for UL 60950-1 / as File Nr. • EAC approval **Marine classifications**, **approvals / marine classification **Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) **Yes **Yes **Yes **Yes **Yes **Yes **Yes **July 2. Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 Ta: -40 °C +70 °C +70 °C FM16US0205X **To FM class 3800:2001, FM class 3810:2005, ANSI/SA-61010-1:2004 **Cut, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C FM16US0205X **Standards**, **specifications**, approvals / other **Certificate of suitability **Pes **Standards**, **specifications**, approvals / marine classification **Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) **Yes	certificate of suitability	
• for ATEX / as certificate • IECEx • for IECEx / se marking • for IECEx / as marking • for IECEx / as certificate • for IECEx / as certificate • for CULus HazLoc / as marking • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as certificate • for CULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as marking • for FM / as marking • for FM / as certificate • for FM / as certificate standards, specifications, approvals / other certificate of suitability • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 61010-2-201 / as File Nr. • for UL 60950-1 / as File Nr. • EAC approval standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) KEMA 07ATEX0145 X Yes; IEC 60079-0, IEC 60079-15 EX nA II T4 GC IECEX DEK 14.0025X Yes (CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 E240480 (NWHP, NWHP7) Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004 CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C +70 °C +70 °C FM16US0205X Standards, specifications, approvals / marine classification Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV)		Yes; EN 60079-0, EN 60079-15
IECEX for IECEx / as marking for IECEx / as certificate CCC / for hazardous zone according to GB standard for cULus HazLoc / as marking for cULus HazLoc / as File Nr. FM registration for FM / as marking for FM / as certificate certificate of suitability railway application in accordance with EN 50121-4 Regulatory Compliance Mark (RCM) for UL 61010-2-201 / as File Nr. FAC approval Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Yes, IEC 60079-0, IEC 60079-0, IEC 60079-15 Ex nA II 74 Gc IECEX DEK 14.0025X Yes IECEX DEK 14.	for ATEX / as marking	II 3 G Ex nA II T4 Gc
 for IECEx / as marking for IECEx / as certificate CCC / for hazardous zone according to GB standard for cULus HazLoc / as marking for cULus HazLoc / as File Nr. FM registration for FM / as marking for FM / as certificate cL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4 E240480 (NWHP, NWHP7) Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/SA-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 Regulatory Compliance Mark (RCM) for UL 61010-2-201 / as File Nr. for UL 60950-1 / as File Nr. E85972 (NRAQ, NRAQ7) EAC approval FAC approval Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Yes 	for ATEX / as certificate	KEMA 07ATEX0145 X
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• for cULus HazLoc / as marking • for cULus HazLoc / as File Nr. • for cULus HazLoc / as File Nr. • FM registration • FM registration • FM registration • for FM / as marking • for FM / as certificate • for FM / as certificate • for FM / as certificate • for ULus HazLoc / as File Nr. • for FM / as marking • for FM / as certificate • for Idus (as File Nr. • for UL 61010-2-201 / as File Nr. • for UL 60950-1 / as File Nr. • EAC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • French marine classification society (BV) • French marine classification society (BV) • FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004 • CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C FM16US0205X • FM folias 3600:2011, FM class 3611:2004, FM class 3611:2004, FM class 3611:2004, FM class 3611:2005, ANSI/ISA-61010-1:2004 • for FM / as marking • FM class 3600:2011, FM class 3611:2004, FM class		IECEx DEK 14.0025X
• for cULus HazLoc / as marking • for cULus HazLoc / as File Nr. • for cULus HazLoc / as File Nr. • FM registration • FM registration • FM registration • for FM / as marking • for FM / as certificate • for FM / as certificate • for FM / as certificate • for ULus HazLoc / as File Nr. • for FM / as marking • for FM / as certificate • for Idus (as File Nr. • for UL 61010-2-201 / as File Nr. • for UL 60950-1 / as File Nr. • EAC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • French marine classification society (BV) • French marine classification society (BV) • FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004 • CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C FM16US0205X • FM folias 3600:2011, FM class 3611:2004, FM class 3611:2004, FM class 3611:2004, FM class 3611:2005, ANSI/ISA-61010-1:2004 • for FM / as marking • FM class 3600:2011, FM class 3611:2004, FM class	 CCC / for hazardous zone according to GB standard 	Yes
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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 Regulatory Compliance Mark (RCM) for UL 61010-2-201 / as File Nr. for UL 60950-1 / as File Nr. E85972 (NRAQ, NRAQ7) EAC approval standards, specifications, approvals / marine classification Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Yes	• for cULus HazLoc / as File Nr.	
ANSI/ISA-61010-1:2004 • for FM / as marking • for FM / as certificate **To °C • for FM / as certificate **To °C *		
• for FM / as certificate 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	•	
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• French marine classification society (BV) Yes		
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• DNV GL Yes		
Korean Register of Shipping (KRS) Yes		
Lloyds Register of Shipping (LRS) Yes		
◆ Nippon Kaiji Kyokai (NK) Yes	All IZ WIZ I CAUC	
Polski Rejestr Statkow (PRS) Yes		Yes
Royal Institution of Naval Architects (RINA) Yes	Polski Rejestr Statkow (PRS)	Yes Yes
accessories	Polski Rejestr Statkow (PRS)	Yes Yes

product extension / optional / C-PLUG	Yes
further information / internet-Links	
Internet-Link	
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
security information	
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