SIEMENS

Data sheet

6GK5224-0BA00-2AC2



SCALANCE XC224 manageable layer 2 IE Switch; 24x 10/100 Mbit/s RJ45-Ports; 1x console port, Diagnostic LED; Redundant power supply; Temp. range -40°C to +70 °C Mounting: Standard Mounting Rail/S7 Profile Rail/Wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device Ethernet/IP-compliant, C-PLUG shaft:

Product type designation	SCALANCE XC224
Transmission 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 / others	
Number of electrical connections	
• for operator console	1
 for signaling contact 	1
• for power supply	1
 for redundant voltage 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
Operating current / of the signaling contacts	
• at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
external / minimum	9.6 V
external / maximum	31.2 V
Supply voltage / 4 / Rated value	
 Consumed current / 4 / at rated supply voltage / maximum 	0.375 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	2.5 A / 125 V
Consumed current / maximum	0.75 A
Power loss [W]	
• at DC / at 24 V	9 W
Permitted 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	95 %
operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
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
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes

Yes

Product properties, functions, 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 feature	
 Cut Through switching method 	No
 Store & Forward switching method 	Yes

Product functions / management, configuration	
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
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 	Yes
designation	
Product functions / Diagnosis	
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
 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	
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
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes

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
NTP-client	Yes
SNTP client	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes

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 EMI	EN 61000-6-2, EN 50121-4
Certificate of suitability / RoHS conformity	Yes; 2011/65/EU

Standards, specifications, approvals / hazardous environments

Standards, specifications, approvais / flazardous en	VITOTITIETIES
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
 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 / miscellaneous

Certificate of suitability

 Railway application in accordance with EN 50121-4 Yes

Yes

• Regulatory Compliance Mark (RCM)

• for UL 61010-2-201 / as File Nr. E85972 (NRAQ, NRAQ7)

• for UL 60950-1 / as File Nr. E115352 (NWGQ, NWGQ7)

• EAC approval

Standards, specifications, approvals / ship classification

Marine classification association

• American Bureau of Shipping Europe Ltd.

(ABS)

• DNV GL Yes

Polski Rejestr Statkow (PRS)

Accessories

Product extension / optional / C-PLUG

Yes

Yes

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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