SIEMENS

Data sheet

Product type designation

6GK5224-0BA00-2AC2

10/100 N DIAGNC RANGE



SCALANCE XC224 SCALANCE XC224 MANAGEABLE LAYER 2 IE-SWITCH; 16X 10/100 MBIT/S RJ45 PORTS; 1X CONSOLE PORT; DIAGNOSITICS-LED; REDUNDANT POWER SUPPLY; TEMP RANGE -40°C UP TO +70°C; MOUNTING WALL/ DINRAIL, S7 DINRAILL C-PLUG SLOT; REDUNDANCY FUNCTIONS; OFFICE FEATURES(RSTP,VLAN,...); PROFINET IO-DEVICE; ETHERNET/IP-CONFORMAL;

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 port	
 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	24.14
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	9.6 31.2 V
Supply voltage / 4 / Rated value	
 Consumed current / 4 / at rated supply voltage / 	0.375 A
maximum	
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 unight	
Design, dimensions and weight Design	compact
Width	120 mm
Height	147 mm
Depth	125 mm
	0.88 kg
Net weight Material / of the enclosure	0.00 kg Polycarbonate (PC-GF10) / pressure die cast aluminum
Mounting type	
	Yes
 35 mm DIN rail mounting 	
	Voo
• wall mounting	Yes
 wall mounting S7-300 rail mounting S7-1500 rail mounting 	Yes Yes

Product properties, functions, components / gene	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)
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
 IGMP (snooping/querier) 	Yes
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
Product function	
 Port diagnostics 	Yes

	N.
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 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
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	No
 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		
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 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		
Certificate of suitability	-		
• ATEX	Yes		
• IECEx	Yes		
Certificate of suitability			
Railway application in accordance with EN	Yes		
50121-4			
 Regulatory Compliance Mark (RCM) 	Yes		
 EAC approval 	Yes		
MTBF / at 40 °C	41.36 у		
Accessories	Accessories		
Product extension / optional / C-PLUG	Yes		
Further Information / Internet Links			
Internet-Link			
 to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst		
• to website: Industrial communication	http://www.siemens.com/simatic-net		
• to website: Industry Mall	https://mall.industry.siemens.com		
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- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

Security information

Security information

http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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