## Data sheet



SCALANCE XC224-4C G manageable layer 2 IE Switch; Full Gigabit; 20x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps s SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; Diagnostic LED; redundant power supply; Temp. range -40 °C to +70 °C; Mounting: Standard mounting rail/S7 mounting rail/wall; redundancy functions; office features (RSTP, VLAN ,...); PROFINET IO Device; Ethernet/IP conformity; C-PLUG shaft;

Product type designation	SCALANCE 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	
Integrated		
Number of combo ports / with RJ45 interface for	4; 1000 MBit/s SFPs	
optical plug-in transceiver		
Interfaces / for communication / plug-in		
Number of electrical connections		
• for SFP	4; 1000 MBit/s	
Interfaces / other		
Number of electrical connections		
• for operator console	1	
• for signaling contact	1	
<ul><li>for power supply</li></ul>	1	

<ul> <li>for redundant voltage supply</li> </ul>	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

Signal inputs/outputs	
Operating voltage / of the signaling contacts	
• at DC / Rated value	24 V

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	
<ul> <li>Consumed current / 4 / at rated supply voltage / maximum</li> </ul>	0.7 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 125 V
Power loss [W]	
• at DC / at 24 V	16.8 W

Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	-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 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
Mounting type	
• 35 mm DIN rail mounting	Yes



• wall mounting	No
• 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	50	
reconfiguration time of <\~0.3\~s		
Cascading in cases of star topology	any (depending only on signal propagation time)	
Product function / QoS according to DSCP	Yes	
Product feature		
<ul> <li>Cut Through switching method</li> </ul>	No	
<ul> <li>Store &amp; Forward switching method</li> </ul>	Yes	

Product functions / management, configuration, engineering		
Product function		
• CLI	Yes	
<ul> <li>web-based management</li> </ul>	Yes	
MIB support	Yes	
• TRAPs via email	Yes	
<ul> <li>Configuration with STEP 7</li> </ul>	Yes	
• RMON	Yes	
SMTP server	No	
Port mirroring	Yes	
<ul> <li>multiport mirroring</li> </ul>	Yes	
• CoS	Yes	
<ul> <li>PROFINET IO diagnosis</li> </ul>	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	
<ul><li>IGMP (snooping/querier)</li></ul>	Yes	



Identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 – higher-level designation/location	Yes
designation	
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	
<ul><li>VLAN - port based</li></ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	No
<ul><li>VLAN - IP-based</li></ul>	No
Number of VLANs / maximum	257
Number of VLANs - dynamic / maximum	257
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
DHCP server	Yes
<ul> <li>DHCP client</li> </ul>	Yes
DHCP Option 82	Yes
<ul> <li>DHCP Option 66</li> </ul>	Yes
DHCP Option 67	Yes
Product functions / redundancy	
Product function	
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy (S2)</li> </ul>	Yes
Ring redundancy	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes



<ul> <li>of the PROFINET IO device / is supported / H- Sync forwarding</li> </ul>	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
Parallel Redundancy Protocol	No
(PRP)/Redundant Network Access (RNA)	
Passive listening	Yes
Protocol / is supported	
• LACP	Yes
Product functions / Security	
Product function	
• IEEE 802.1x (radius)	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul> <li>broadcast blocking</li> </ul>	Yes
Protocol / is supported	
• SSH	Yes
• SSL	Yes
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	Yes
NTP-client	Yes
• SNTP client	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
System modification during operation	
Product function / configuration in RUN via CiR/H-	Yes
CiR	
Standards, specifications, approvals	
Security for industrial automation and control	Yes
systems / acc. to IEC 62443-4-2:2019	
MTBF	20 y
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 50121-16
• for immunity to EMI	EN 61000-6-2, EN 50121-16



Yes; 2011/65/EU

last modified:

05/13/2020

