## **SIEMENS**

## Data sheet

## 6GK5224-4GS00-2TC2



SCALANCE XC224-4C G (E/IP) 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; Default EtherNet/IP

Product type designation	SCALANCE XC224-4C G (E/IP def.)
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	24; RJ45
Number of 10/100/1000 Mbit/s RJ45 ports / Integrated	24
Number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 1000 MBit/s SFPs
Interfaces / for communication / plug-in	
Number of electrical connections	
• for SFP	4; 1000 MBit/s
Interfaces / other	
Number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
• for power supply	1

for redundant voltage supply	1
Type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul> <li>for power supply</li> </ul>	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	
Consumed current / 4 / at rated supply voltage /	0.7 A
maximum	
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
<ul> <li>during storage</li> </ul>	-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	
<ul> <li>35 mm DIN rail mounting</li> </ul>	Yes

● wall mounting	No
• S7-300 rail mounting	Yes
<ul> <li>S7-1500 rail mounting</li> </ul>	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		

Yes Yes Yes Yes Yes No
Yes Yes Yes No
Yes Yes Yo
Yes Yes No
Yes No
No
/
res
Yes
Yes
Yes
3
Yes
1632 byte
Yes
Yes
Yes
Yes
No
Yes
YYY3Y11 YYYYYYYYY

• I&M0 - device-specific information         Yes           • I&M1 - higher-level designation/location designation         Yes           Product functions / Diagnostics         Product function           • Product function         Yes           • Statistics Packet Size         Yes           • Statistics packet type         Yes           • Statistics packet type         Yes           • Statistics packet type         Yes           • SysLog         Yes           Product functions / VLAN         Product function           • VLAN - protocol-based         No           • VLAN - fordicol-GOVEN         Product function           • Protocol / Is supported / GVRP         Yes           • DHCP Server         Yes           • DHCP Server         Yes           • DHCP Option 82         Yes           • DHCP Option 63         Yes           • DHCP Option 64         Yes           • DHCP Option 67         Yes	Identification & maintenance function	
designation	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
Product functions / Diagnostics       Yes         Product function       Yes         • Statistics Packet Size       Yes         • Statistics packet type       Yes         • Errors tatistics       Yes         • Systog       Yes         Product functions / VLAN       Product functions / VLAN         Product functions / VLAN       Product functions / VLAN         Product functions / VLAN       Yes         • VLAN - port based       No         • VLAN - protocol-based       No         • VLAN - IP-based       No         Number of VLANs / maximum       257         Number of VLANs / maximum       257         Protocol / is supported / GVRP       Yes         Product functions / DCP       Yes         Product function       -         • DHCP Server       Yes         • DHCP Option 82       Yes         • DHCP Option 66       Yes         • DHCP Option 67       Yes         • Product function       -         • of the PROFINET IO device / is supported / Yes         • High Speed Redundancy Protocol (HRP)       Yes <t< td=""><td><ul> <li>I&amp;M1 – higher-level designation/location</li> </ul></td><td>Yes</td></t<>	<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
Product function     Yes       • Port diagnostics     Yes       • Statistics Packet Size     Yes       • Statistics packet type     Yes       • SysLog     Yes       Product functions / VLAN     Product function       • VLAN - port based     Yes       • VLAN - protocol-based     No       • VLAN - protocol-based     No       • VLAN - protocol-based     No       • VLAN - Probased     No       • VLAN - IP-based     No       • VLAN - Gynamic / maximum     257       Number of VLANs / dynamic / maximum     257       Product function     257       Product function     Yes       • DHCP Server     Yes       • DHCP Server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       • Product function     Yes       • Ing redundancy     Yes       • High Speed Redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP	designation	
• Port diagnostics     Yes       • Statistics Packet Size     Yes       • Statistics packet type     Yes       • Error statistics     Yes       • SysLog     Yes       Product functions / VLAN     Yes       Product function     Yes       • VLAN - port based     Yes       • VLAN - port based     No       • VLAN - port based     No       • VLAN - protocol-based     No       • VLAN - IP-based     No       • VLAN - IP-based     Yes       Product function     257       Protocol / Is supported / GVRP     Yes       Product function     257       Product function / DHCP     Yes       Product function     Yes       • DHCP Option 82     Yes       • DHCP Option 82     Yes       • DHCP Option 67     Yes       Product function     Yes       • OHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       • DHCP Option 67     Yes       • DHCP Option 67     Yes       • High Speed Redundancy Protocol (HRP) with redundan	Product functions / Diagnostics	
<ul> <li>Statistics Packet Size</li> <li>Statistics Packet Size</li> <li>Statistics Packet Size</li> <li>Statistics Packet Size</li> <li>SysLog</li> <li>Yes</li> <li>Product function</li> <li>VLAN - protocol-based</li> <li>VLAN - protocol-based</li> <li>VLAN - protocol-based</li> <li>VLAN - protocol-based</li> <li>No</li> <li>VLAN - protocol-based</li> <li>No</li> <li>VLAN - protocol-based</li> <li>No</li> <li>VLAN - protocol-based</li> <li>No</li> <li>Product function / maximum</li> <li>257</li> <li>Number of VLANs - dynamic / maximum</li> <li>257</li> <li>Product function / GVRP</li> <li>Yes</li> <li>Product function</li> <li>DHCP Parver</li> <li>Yes</li> <li>DHCP Option 82</li> <li>Yes</li> <li>DHCP Option 66</li> <li>Yes</li> <li>DHCP Option 67</li> <li>Yes</li> <li>Product function</li> <li>of the PROFINET 10 device / is supported / PROFINET vis vis vis vis vis vis vis vis vis vis</li></ul>	Product function	
Statistics packet type     Statistics packet type     Error statistics     Yes     SysLog     Yes  Product functions / VLAN  Product function     VLAN - pot based     Yes     VLAN - pot based     Ves     VLAN - pot based     No     VLAN - protocol-based     No     VLAN - protocol / GVRP     Yes  Product function     DHCP server     Yes     DHCP Option 62     Yes     DHCP Option 62     Yes     DHCP Option 65     Yes     DHCP Option 67     Yes  Product function     of the PROFINET IO device / is supported /     Yes     High Speed Redundancy Protocol (HRP)     Yes     High Speed redundancy protocol (HRP) with     redundancy manager     high speed redundancy protocol (HRP) with     standby redundancy     Protocol / is supported / Media Redundancy Protocol     (MRP)     Product function     media redundancy protocol (MRP) with     Yes	<ul> <li>Port diagnostics</li> </ul>	Yes
Error statistics     Forduct functions / VLAN  Product functions / VLAN  Product function     VLAN - port based     Ves      VLAN - protocol-based     No     VLAN - protocol-based     Ves     Protocol / is supported / MRP     Ves     Product function     of the PROFINET IO device / is supported /     Yes     Product function     of the PROFINET IO device / is supported /     Yes     Product function     of the PROFINET IO device / is supported /     Yes     Product function     of the PROFINET IO device / is supported /     Yes     Product function     of the PROFINET IO device / is supported /     Yes     High Speed redundancy Protocol (HRP)     Yes     High Speed redundancy protocol (HRP)     Yes     high speed redundancy protocol (HRP) with     standby redundancy     Protocol / is supported / Media Redundancy Protocol     Yes     Product function     media redundancy protocol (MRP) with     Yes	Statistics Packet Size	Yes
SysLog     Yes       Product function     Yes       • VLAN - port based     Yes       • VLAN - protocol-based     No       • VLAN - protocol-based     No       • VLAN - IP-based     No       Number of VLANs / maximum     257       Number of VLANs - dynamic / maximum     257       Product functions / DHCP     Yes       Product function     257       • DHCP server     Yes       • DHCP client     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • of the PROFINET I/O device / is supported /     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       Product function     Yes       • high speed redundancy protocol (HRP) with standby redundancy protocol (MRP) with     Yes       Product function     Yes	<ul> <li>Statistics packet type</li> </ul>	Yes
Product functions / VLAN       Product function       • VLAN - port based       • VLAN - protocol-based       No       • VLAN - IP-based       No       Number of VLANs / maximum       267       Number of VLANs - dynamic / maximum       257       Protocol / is supported / GVRP       Yes       Product functions / DHCP       Product function / DHCP       Product function       • DHCP server       Yes       • DHCP Option 82       • DHCP Option 66       Yes       • DHCP Option 67       Yes       Product function       • of the PROFINET IO device / is supported /       Yes       • High Speed redundancy Protocol (HRP)       Yes       • high speed redundancy protocol (HRP) with redundancy       • high speed redundancy protocol (HRP) with standby redundancy       • high speed redundancy protocol (HRP) with standby redundancy       Protocol / is supported / Media Redundancy Protocol       Yes       Product function	Error statistics	Yes
Product function <ul> <li>VLAN - port based</li> <li>VLAN - protocol-based</li> <li>No</li> <li>VLAN - IP-based</li> <li>No</li> <li>Number of VLANs / maximum</li> <li>257</li> <li>Number of VLANs - dynamic / maximum</li> <li>257</li> <li>Protocol / is supported / GVRP</li> <li>Yes</li> <li>Product functions / DHCP</li> <li>Product function</li> <li>DHCP server</li> <li>Yes</li> <li>DHCP Option 82</li> <li>Yes</li> <li>DHCP Option 66</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Product function (S2)</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Yes</li> <li>Product function (HRP) with redundancy Protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy</li> <li>Yes</li> <li>Protoci / is supported / Media Redundancy Protocol</li> <li>Yes</li> <li>Product function</li> <li>media redundancy protocol (MRP) with</li> <li>Yes</li> <li>Product function</li> <li>Product function</li> <li>Yes</li></ul>	<ul> <li>SysLog</li> </ul>	Yes
• VLAN - port basedYes• VLAN - protocol-basedNo• VLAN - IP-basedNoNumber of VLANs / maximum257Number of VLANs - dynamic / maximum257Protocol / is supported / GVRPYesProduct functions / DHCPYesProduct functionYes• DHCP option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct function •Yes• DHCP Option 7Yes• DHCP Option 82Yes• DHCP Option 64Yes• DHCP Option 7Yes• DHCP Option 7Yes• DHCP Option 7Yes• No 1Yes• No 1		
• VLAN - protocol-based     No       • VLAN - IP-based     No       Number of VLANs / maximum     257       Number of VLANs - dynamic / maximum     257       Protocol / is supported / GVRP     Yes       Product functions / DHCP     Yes       Product function     • DHCP server       • DHCP option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 77     Yes       Product functions / redundancy     Yes       • DHCP Option 67     Yes       Product function     Yes       • fing redundancy     Yes       • fing redundancy     Yes       • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy       • high speed redundancy protocol (HRP) with standby redundancy       Product function     Yes       • high speed redundancy protocol (MRP) with       • media redundancy protocol (MRP) with <td>Product function</td> <td></td>	Product function	
• VLAN - IP-based     No       Number of VLANs / maximum     257       Number of VLANs - dynamic / maximum     257       Protocol / is supported / GVRP     Yes       Product functions / DHCP     Yes       Product function     0       • DHCP server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       Product functions     Yes       • DHCP Option 67     Yes       Product functions     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP option 67     Yes       Product function     Yes       • DHCP option 67     Yes       Product function     Yes       • Other PROFINET IO device / is supported / PROFINET system redundancy (S2)     Yes       • Ring redundancy     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     Yes       Protocol / is supported / Media Redundancy Protocol     Yes       Product function     Yes	<ul> <li>VLAN - port based</li> </ul>	Yes
Number of VLANs / maximum       257         Number of VLANs - dynamic / maximum       257         Protocol / is supported / GVRP       Yes         Product functions / DHCP       Yes         Product function       0 DHCP server         • DHCP lient       Yes         • DHCP Option 82       Yes         • DHCP Option 66       Yes         • DHCP Option 67       Yes         Product function       Yes         • DHCP Option 67       Yes         Product function       Yes         • DHCP Option 67       Yes         Product function       Yes         • Of the PROFINET IO device / is supported / PROFINET system redundancy (S2)       Yes         • Ring redundancy       Yes         • High Speed Redundancy Protocol (HRP) with redundancy manager       Yes         • high speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy Protocol (HRP) with standby redundancy Protocol (MRP) with       Yes         Protoct / is supported / Media Redundancy Protocol (MRP)       Yes         Product function       Yes	<ul> <li>VLAN - protocol-based</li> </ul>	No
Number of VLANs - dynamic / maximum     257       Protocol / is supported / GVRP     Yes       Product functions / DHCP     Yes       Product function     9       • DHCP server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       Product functions / redundancy     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • DHCP Option 67     Yes       Product function     Yes       • of the PROFINET IO device / is supported /     Yes       • Ring redundancy     Yes       • High Speed Redundancy Protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy     Yes       Protocol / is supported / Media Redundancy Protocol (MRP)     Yes       Product function     Yes       • media redundancy protocol (MRP) with     Yes	<ul> <li>VLAN - IP-based</li> </ul>	No
Protocol / is supported / GVRP     Yes       Product function        Product function     Yes       • DHCP server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       Product functions / redundancy     Yes       Product function     Yes       • of the PROFINET IO device / is supported / PROFINET system redundancy (S2)     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     Yes	Number of VLANs / maximum	257
Product function         Product function         • DHCP server       Yes         • DHCP client       Yes         • DHCP Option 82       Yes         • DHCP Option 66       Yes         • DHCP Option 67       Yes         Product functions / redundancy       Yes         Product function       Yes         • of the PROFINET IO device / is supported / PROFINET system redundancy (S2)       Yes         • Ring redundancy       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       Yes         • media redundancy protocol (MRP) with       Yes	Number of VLANs - dynamic / maximum	257
Product function <ul> <li>DHCP server</li> <li>Yes</li> <li>DHCP Olient</li> <li>Yes</li> <li>DHCP Option 82</li> <li>DHCP Option 66</li> <li>Yes</li> </ul> Product functions / redundancy       Yes         Product function <ul> <li>of the PROFINET IO device / is supported /</li> <li>PROFINET system redundancy (S2)</li> <li>Ring redundancy</li> <li>Yes</li> <li>High Speed Redundancy Protocol (HRP)</li> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>Protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>Yes</li> <li>Product function</li> <li>media redundancy protocol (MRP) with</li> <li>Yes</li> </ul>	Protocol / is supported / GVRP	Yes
DHCP serverYes• DHCP clientYes• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct functions / redundancy• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• high speed redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• hold is supported / Media Redundancy Protocol (MRP)Yes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes• media redundancy protocol (MRP) with • media redundancy protocol (MRP) withYes		
DHCP client     Yes     DHCP Option 82     Yes     DHCP Option 66     Yes     DHCP Option 67     Yes      Product function     redundancy     Product function     ing redundancy Protocol (HRP) with     standby redundancy     Protocol / is supported / Media Redundancy Protocol     (MRP)     Product function     ing redundancy protocol (MRP) with     Yes	Product function	
• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67YesProduct functions / redundancyYesProduct functionYes• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProtocol / is supported / Media Redundancy Protocol (MRP) withYesProduct function • media redundancy protocol (MRP) withYes		Yes
DHCP Option 66 Yes     DHCP Option 67 Yes      Product functions / redundancy      Product function     of the PROFINET IO device / is supported / Yes     PROFINET system redundancy (S2)     Ring redundancy     Yes     High Speed Redundancy Protocol (HRP) Yes     high speed redundancy protocol (HRP) with Yes     redundancy manager     high speed redundancy protocol (HRP) with Yes     redundancy for the function     Yes     Protocol / is supported / Media Redundancy Protocol     (MRP)     Product function     media redundancy protocol (MRP) with Yes	DHCP client	Yes
• DHCP Option 67         Yes           Product functions / redundancy         Product function           • of the PROFINET IO device / is supported / PROFINET system redundancy (S2)         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         Yes           • media redundancy protocol (MRP) with         Yes	DHCP Option 82	Yes
Product functions / redundancy         Product function         • of the PROFINET IO device / is supported / PROFINET system redundancy (S2)         • 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       Yes         • media redundancy protocol (MRP) with       Yes	DHCP Option 66	Yes
Product function       Yes         • of the PROFINET IO device / is supported / PROFINET system redundancy (S2)       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       Yes	DHCP Option 67	Yes
• of the PROFINET IO device / is supported / PROFINET system redundancy (S2)Yes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with et and by redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with 		
PROFINET system redundancy (S2)       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       Yes         • media redundancy protocol (MRP) with       Yes	Product function	
<ul> <li>High Speed Redundancy Protocol (HRP)</li> <li>High Speed redundancy protocol (HRP) with redundancy manager</li> <li>High speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy</li> <li>Protocol / is supported / Media Redundancy Protocol</li> <li>Product function</li> <li>media redundancy protocol (MRP) with</li> <li>Yes</li> </ul>		Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>Protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>Product function</li> <li>media redundancy protocol (MRP) with</li> <li>Yes</li> </ul>	Ring redundancy	Yes
redundancy manager • high speed redundancy protocol (HRP) with standby redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function • media redundancy protocol (MRP) with Yes	<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
standby redundancy     Yes       Protocol / is supported / Media Redundancy Protocol (MRP)     Yes       Product function     Yes       • media redundancy protocol (MRP) with     Yes		Yes
(MRP)       Product function       • media redundancy protocol (MRP) with   Yes		Yes
media redundancy protocol (MRP) with     Yes		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
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
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
Due due to fine at the a	
Product functions / time Product function	
SICLOCK support	Yes
NTP-client	Yes
	Yes
SNTP client	
Protocol / is supported	Ver
• NTP	Yes
• SNTP	Yes
System modification during operation	
Product function / configuration in RUN via CiR/H- CiR	Yes
Standards, specifications, approvals	
Security for industrial automation and control	Yes
systems / acc. to IEC 62443-4-2:2019	
MTBF	20 у
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 50121-18
for immunity to EMI	EN 61000-6-2, EN 50121-18

Certificate of suitability / RoHS conformity

last modified:

Yes; 2011/65/EU

05/13/2020