# 6GK5224-0BA00-2AC2

**Data sheet** 



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

product type designation	
product brand name	SCALANCE
product type designation	XC224
transfer rate	
transfer rate	10 Mbit/s, 100 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 Mbit/s RJ45 ports	
<ul> <li>with securing collar</li> </ul>	24
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
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
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
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	9 W
<ul> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.375 A
<ul><li>supply voltage / 1 / rated value</li></ul>	9.6 31.2 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.75 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
fuse protection type / 1 / at input for supply voltage	2.5 A/ 125 V
ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C

relative humstly at 25 °C / without condensation / during operation / macronum protection class IP design, dimensions and weights design, dimensions and weights design	a during transport	-40 +85 °C
# 125 °C / willbout condensation / during operation / maximum protection class IP   IP20	during transport	-40 +85 C
maximum protection class IP IP20 dealign_dimenations and welghts design width 120 mm   120 mm   125 mm   120 mm   125 mm   120 mm   125 mm	•	05.0/
protection class IP  design dimensions and weights  design compact  worm 120 mm  height 147 mm  depth 125 mm  naterial / of the encosure Polycarbonate (PC-GF10)/ pressure die cast aluminum  statening method  ***Si mm DIN-rall mounting Yes  ***Castacting in rise case of a refundant ring / at reconfiguration  ***Ogs according in DISCP  ***Yes  ***Ogs according in DISCP  ***Yes  ***Ogs according in DISCP  ***Position of Yes  ***Product functions / management, configuration, engineering  product funct		95 %
design width height 120 mm height 147 mm deph 125 mm ret weight 0.88 kg material / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum fastening method 3 mm DIN-rall mounting Yes 3 mm DIN-rall mounting 4 yes 9 3-13-000 rall mounting 9 yes 1 yes 1 yes 9 3-13-000 rall mounting 9 yes 9 3-13-000	protection class IP	IP20
design width height 120 mm height 147 mm deph 125 mm ret weight 0.88 kg material / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum fastening method 3 mm DIN-rall mounting Yes 3 mm DIN-rall mounting 4 yes 9 3-13-000 rall mounting 9 yes 1 yes 1 yes 9 3-13-000 rall mounting 9 yes 9 3-13-000	design, dimensions and weights	
with 120 mm   120 mm   125 mm		compact
height depth 125 mm 125		·
depth		
net weight material / of the enclosure Tastening method  • 35 mm DIN-rail mounting • 35 mm DIN-rail mounting • 35 mm DIN-rail mounting • 795 • 37-300 rail mounting • 38-30 rail mountin		
material rof the enclosure fastering method	·	
fastening method  3 mm DIN-rail mounting  4 ves  57-300 rail mounting  57-300 rail mounting  57-300 rail mounting  67-30 rail mounting  7 ves  67-30 rail mounting  7 ves  67-30 rail mounting  67-30 rail mounting  7 ves  7 ves  7 ves  8 ves  8 ves  8 ves  8 ves  8 ves  9 ves		•
* 35 mm DIN-rail mounting     * 93*300 rail mounting     * 95*300 rail mounting     * 95*300 rail mounting     * Yes     * 95*30 rail mounting     * Yes     * 95*30 rail mounting     * 90*30 rail mounting		,
wall mounting	-	Yes
S7-300 rail mounting S7-300 rail mounting S7-1500 rail mounting Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration function of No according to DSCP reduct feature S7-300 rail mounting S8-30-50 rail reconfiguration S8-30-50 rail reconfiguration S8-30-50 rail reconfiguration S8-30-50 rail reconfiguration, engineering Product function C8-30-50 rail reconfiguration, engineering Product function C9-30-50 rail reconfiguration C9-30-50 rail	_	
S7-1500 rail mounting  Product foatures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of 4-0.31-5 cascading in cases of star topology product function  QOS according to DSCP product feature  • Cut Through switching method • Store & Forward switching method • Store & Forward switching method • Store & Forward switching method • Cut Through switching method • Cut Through switching method • Store & Forward switching method • Cut Through switching method • Cut Through switching method • Cut Through switching method • Store & Forward switching method • Store & Forward switching method • Cut Through switching method • Store & Forward switching method • Cut Through switching method • Store & Forward switching method • Cut Through switching method • Store & Forward switching method • Cut Through switching method • Ves • SMTP save amal • Configuration with STEP 7 • Yes • SMTP server • No • SMTP server • No • SMTP server • No • PROFINET IC diagnosis • Yes • switch-managed • Yes • SMED SAVE A SAV	-	
cascading in the case of a redundant ring / at reconfiguration inter of +-Q-3-s-s   cascading in cases of start topology   any (depending only on signal propagation time)	-	
cascading in the case of a redundant ring / at reconfiguration time of +0-0.3 -8 s cascading in cases of star topology any (depending only on signal propagation time) product function  • QoS according to DSCP product feature • Cut Through switching method • Store & Forward switching method • Yes • RMON • SMIP server • No • PROFINET IO diagnosis • Yes • SWITCHINGT IO diagnosis • Switch-managed • Yes • S		
time of <-0.3%-s cascading in cases of star topology product function  • QoS according to DSCP yes  product function  • Cut Through switching method • Store & Forward switching method • Store & Forward switching method • Cut Through switching method • Cut • Cut • Web-based management, configuration, engineering product function • Cut • Web-based management • Yes • Will support • Milb support • Milb support • RMON • SMTP server • RMON • SMTP server • port mirroring • Yes • port mirroring • Yes • port mirroring • Yes • PROFINET IO diagnosis • switch-managed  PROFINET conformity class  talegram length / for Ethernet / maximum  protocol / is supported • Telnet • TEIP • Yes • STIP • STI		
Product function   OSS according to DSCP		
e QoS according to DSCP product feature  - Cut Through switching method - Store & Forward switching method - Cut - Cut - Wes - Cut - Wes - Cut - Wes -	cascading in cases of star topology	any (depending only on signal propagation time)
product feature  • Out Through switching method  • Store & Forward switching method  • Store & Forward switching method  • CLI  • CLI  • web-based management  • NB support  • TRAPs via email  • configuration with STEP 7  • RMON  • SMITP server  • port mirroring  • Cos  • PROFINET IO diagnosis  • switch-managed  • PROFINET Io offormity class  telegram length / for Ethemet / maximum  • Telegram length / for Eth	product function	
Cut Through switching method Store & Forward switching method Yes  product function  CLI  web-based management  Mill support  TRAPs via email  configuration with STEP 7  RMON  SMTP server  port mirroring  multiport mirroring  CSS  PROFINET IO diagnosis  switch-managed  PROFINET conformity class  telegram length / for Ethernet / maximum  protocol / is supported  Telnet  Telnet  Telnet  Wes  TETP  Wes  SFTP  BOOTP  CMRP  CMRP  SMRP  SM	QoS according to DSCP	Yes
• Store & Forward switching method  product functions / management, configuration, engineering  product function  • CLI  • web-based management  • MIB support  • TRAPs via email  • configuration with STEP 7  • RMON  • SMTP server  • No  • port mirroring  • CoS  • PROFINET IO diagnosis  • witch-managed  PROFINET conformity class  telegram length / for Ethernet / maximum  protocol / is supported  • Telnet  • Telnet	product feature	
product functions	<ul> <li>Cut Through switching method</li> </ul>	No
Product function		Yes
• CLI         Yes           • web-based management         Yes           • MIB support         Yes           • TRAP's 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           • PROFINET conformity class         B           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         **           • Telnet         Yes           • HTTP         Yes           • HTTP         Yes           • TFTP         Yes           • TFTP         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLDP         Yes           • EtherNet/IP         Yes           • SNMP v1         Yes           • SNMP v3         Yes           • IGMP (snooping/querier)         Yes           • IdMn1- h	product functions / management, configuration, engineering	
• 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           • PROFINET conformity class         B           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         • Telnet           • Telnet         Yes           • HTTP         Yes           • HTTP         Yes           • HTTP         Yes           • STP         Yes           • BOOTP         No           • GMRP         Yes           • DCP         Yes           • LLLDP         Yes           • SNMP V1         Yes           • SNMP V2         Yes           • SNMP V3         Yes           • IGMF (snooping/querier)         Yes           • IdM1 - higher level designation/location designation	product function	
	• CLI	Yes
• TRAP's via email • configuration with STEP 7 • RMON • SMTP server • port mirroring • port mirroring • res • PROFINET IO diagnosis • switch-managed • PROFINET conformity class • switch-managed • res • PROFINET in Ethernet / maximum • 1632 byte  protocol / is supported • Telnet • Telnet • Yes • HTTP • HTTPS • Yes • SFTP • Yes • SFTP • SFTP • SFTP • SFTP • SFTP • SOOTP • LLDP • LLDP • LLDP • EtherNet/IP • SNMP ∨2 • SNMP ∨2 • SNMP ∨3 • IGMP (snooping/querier) • Identification & maintenance function • I&MO - device-specific information • I&MO - device-specific i	<ul> <li>web-based management</li> </ul>	Yes
	MIB support	Yes
	TRAPs via email	Yes
	<ul> <li>configuration with STEP 7</li> </ul>	Yes
<ul> <li>port mirroring</li> <li>multiport mirroring</li> <li>CoS</li> <li>Yes</li> <li>PROFINET IO diagnosis</li> <li>switch-managed</li> <li>Yes</li> <li>switch-managed</li> <li>Yes</li> <li>PROFINET conformity class</li> <li>B</li> <li>telegram length / for Ethernet / maximum</li> <li>1632 byte</li> <li>protocol / is supported</li> <li>Telnet</li> <li>HTTP</li> <li>HTTP</li> <li>Yes</li> <li>HTTPS</li> <li>SFTP</li> <li>SFTP</li> <li>BOOTP</li> <li>BOOTP</li> <li>GMRP</li> <li>Yes</li> <li>EtherNet/IP</li> <li>Yes</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGM0 (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>Ves</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M0 - device-specific information</li> <li>Ves</li> </ul>	• RMON	Yes
<ul> <li>multiport mirroring</li> <li>CoS</li> <li>Yes</li> <li>PROFINET IO diagnosis</li> <li>switch-managed</li> <li>Yes</li> <li>switch-managed</li> <li>Yes</li> </ul> PROFINET conformity class <ul> <li>B</li> <li>telegram length / for Ethernet / maximum</li> <li>1632 byte</li> </ul> protocol / is supported <ul> <li>Telnet</li> <li>Yes</li> <li>HITTP</li> <li>Yes</li> <li>HITTPS</li> <li>Yes</li> <li>FFTP</li> <li>SFTP</li> <li>BOOTP</li> <li>BOOTP</li> <li>GMRP</li> <li>Yes</li> <li>EtherNet/IP</li> <li>Yes</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>Yes</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M0 - device-specific information</li> <li>Yes</li> </ul>	SMTP server	No
CoS     PROFINET IO diagnosis     Yes     • switch-managed     Yes  PROFINET conformity class     B  telegram length / for Ethernet / maximum     1632 byte  protocol / is supported      • Telnet     • HTTP     Yes     • HTTPS     Yes     • TFTP     Yes     • SFTP     • SFTP     • SFTP     • BOOTP     • GMRP     • DCP     • LLDP     • LLDP     • EtherNet/IP     • SNMP v1     • SNMP v2     • SNMP v3     • IGMP (snooping/querier)     identification & maintenance function     • I&M0 - device-specific information     • Yes     • SMM1 - higher level designation/location designation     • Yes     • SM1 - higher level designation/location designation     • Ves     • SM2 - Ves     • SM3 - Ves     • SM4 - higher level designation/location designation     • Ves     • SM5 - Ves     • SM6 - Ves     • SM6 - Ves     • SM7 - Ves     • SM8 - Ves     • SM8 - Ves     • SM9 - Ve	<ul> <li>port mirroring</li> </ul>	Yes
	<ul> <li>multiport mirroring</li> </ul>	Yes
• switch-managed	• CoS	Yes
PROFINET conformity class         B           telegram length / for Ethernet / maximum         1632 byte           protocol / is supported         Felnet           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • TETP         Yes           • SFTP         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         Yes           • I&M0 - device-specific information         Yes           • I&M1 - higher level designation/location designation         Yes	<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
telegram length / for Ethernet / maximum  protocol / is supported  • Telnet  • Telnet  • HTTP  • HTTPS  • HTTPS  • HTTPS  • SFTP  • SFTP  • BOOTP  • BOOTP  • DCP  • LLDP  • EtherNet/IP  • SNMP v1  • SNMP v2  • SNMP v3  • IGMP (snooping/querier)  identification & maintenance function  • I&M0 - device-specific information  • I&M1 - higher level designation/location designation  7es	switch-managed	Yes
protocol / is supported           • Telnet         Yes           • HTTP         Yes           • HTTPS         Yes           • TFTP         Yes           • SFTP         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         Yes           • I&M0 - device-specific information         Yes           • I&M1 - higher level designation/location designation         Yes	PROFINET conformity class	В
<ul> <li>Telnet</li> <li>HTTP</li> <li>HTTPS</li> <li>TFTP</li> <li>SFTP</li> <li>BOOTP</li> <li>BOOTP</li> <li>Mo</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>Identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> <li>Yes</li> </ul>	telegram length / for Ethernet / maximum	1632 byte
<ul> <li>HTTP</li> <li>HTTPS</li> <li>Yes</li> <li>TFTP</li> <li>Yes</li> <li>SFTP</li> <li>BOOTP</li> <li>No</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;MO - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> <li>Yes</li> </ul>	protocol / is supported	
<ul> <li>HTTPS</li> <li>TFTP</li> <li>SFTP</li> <li>BOOTP</li> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> <li>Yes</li> </ul>	• Telnet	Yes
• TFTP • SFTP • SFTP • BOOTP • BOOTP • GMRP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) identification & maintenance function • I&M0 - device-specific information • I&M1 - higher level designation/location designation  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Identification & maintenance function  • I&M0 - device-specific information • I&M1 - higher level designation/location designation  Yes	• HTTP	Yes
SFTP     BOOTP     No     GMRP     Yes     DCP     Yes     LLDP     Yes     EtherNet/IP     SNMP v1     SNMP v2     SNMP v3     IGMP (snooping/querier)  identification & maintenance function     I&M0 - device-specific information     I&M1 - higher level designation/location designation  Yes  No	• HTTPS	Yes
BOOTP GMRP Yes DCP Yes LLDP Yes EtherNet/IP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  Yes  Yes Yes Yes Yes Yes Yes Yes Yes	• TFTP	Yes
<ul> <li>GMRP</li> <li>DCP</li> <li>LLDP</li> <li>EtherNet/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>IGMP (snooping/querier)</li> <li>identification &amp; maintenance function</li> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	• SFTP	Yes
DCP     Ves     LLDP     Yes     EtherNet/IP     Yes     SNMP v1     SNMP v2     SNMP v3     IGMP (snooping/querier)  identification & maintenance function     I&M0 - device-specific information     I&M1 - higher level designation/location designation  Yes  Yes  Yes  Yes	• BOOTP	No
LLDP Yes  EtherNet/IP Yes  SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  Yes	• GMRP	Yes
EtherNet/IP  SNMP v1  SNMP v2  SNMP v3  IGMP (snooping/querier)  identification & maintenance function  I&M0 - device-specific information  I&M1 - higher level designation/location designation  Yes  Yes  Yes  Yes	• DCP	Yes
SNMP v1 SNMP v2 SNMP v3 SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  Yes	• LLDP	Yes
SNMP v2 SNMP v3 Yes IGMP (snooping/querier) Yes identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation Yes	• EtherNet/IP	Yes
SNMP v3 IGMP (snooping/querier)  identification & maintenance function I&M0 - device-specific information I&M1 - higher level designation/location designation  Yes	• SNMP v1	Yes
IGMP (snooping/querier)  identification & maintenance function  I&M0 - device-specific information  I&M1 - higher level designation/location designation  Yes	• SNMP v2	Yes
identification & maintenance function  • I&M0 - device-specific information  • I&M1 - higher level designation/location designation  Yes	• SNMP v3	Yes
<ul> <li>I&amp;M0 - device-specific information</li> <li>I&amp;M1 - higher level designation/location designation</li> <li>Yes</li> </ul>	<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes
• I&M1 - higher level designation/location designation Yes	identification & maintenance function	
• I&M1 - higher level designation/location designation Yes	I&M0 - device-specific information	Yes
product functions / diagnostics	<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
	product functions / diagnostics	

product function	
<ul> <li>port diagnostics</li> </ul>	Yes
<ul> <li>statistics Packet Size</li> </ul>	Yes
<ul> <li>statistics packet type</li> </ul>	Yes
error statistics	Yes
SysLog	Yes
product functions / VLAN	
product function	
VLAN - port based	Yes
VLAN - protocol-based	No
VLAN - IP-based	No
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby	257
link)	201
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	
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	Yes
forwarding	163
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	Yes
<ul> <li>ring redundancy</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
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul><li>redundancy procedure RSTP+</li></ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
Parallel Redundancy Protocol (PRP)/operation in the	Yes
PRP-network  • Parallel Redundancy Protocol (PRP)/Redundant Network	No
Access (RNA)	
passive listening	Yes
protocol / is supported	
• LACP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
RADIUS client	Yes
<ul> <li>broadcast/multicast/unicast limiter</li> </ul>	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
Regulatory Compliance Mark (RCM)	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
<ul> <li>for EMC interference emission</li> </ul>	EN 61000-6-4, EN 50121-4
<ul> <li>for immunity to EMC</li> </ul>	EN 61000-6-2, EN 50121-4
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 60950-1 E115352
standards, specifications, approvals / hazardous environments	
certificate of suitability	
• ATEX	Yes
• UKEX	Yes
• IECEx	Yes
ULhazloc approval	Yes
CCC / for hazardous zone according to GB standard	Yes
FM registration	Yes
standards, specifications, approvals / other	
certificate of suitability	
• railway application in accordance with EN 50121-4	Yes
RoHS conformity	Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	Yes
DNV GL	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (NK)	Yes
Polski Rejestr Statkow (PRS)	Yes
	Yes
Royal Institution of Naval Architects (RINA)  atomics associations approved / Environmental Braduet D.  Architects (RINA)	
standards, specifications, approvals / Environmental Product Do	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	441.1 kg
• total	441.1 kg
during manufacturing     during expertion	47.67 kg
during operation     after and of life.	392.82 kg
after end of life	0.57 kg
product functions / general	
MTBF	41 a
reference code	V-
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
Warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud
<ul> <li>to website: Industrial communication</li> </ul>	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
to website: CAx-Download-Manager	https://www.siemens.com/cax

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### security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

# Approvals / Certificates

## **General Product Approval**



Declaration of Conformity









**General Product Approval** 

**EMV** 

For use in hazardous locations

Declaration of Conformity





<u>KC</u>



IECEx



For use in hazardous locations

**Test Certificates** 

Marine / Shipping

<u>FM</u>

CCC-Ex

Type Test Certificates/Test Report







Marine / Shipping

NK / Nippon Kaiji Kyokai





Confirmation

**Environment** 



**Industrial Communication** 

**PROFINET** 

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