SIEMENS

Data sheet

6GK5324-4GG10-3JR2

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 1x 230 V AC; Ports at the back



product type designation	SCALANCE XR324-4M EEC
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 	16; RJ45
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	8
number of 100 Mbit/s SC ports	
• for multimode	8
number of 1000 Mbit/s LC ports	
• for multimode	8
• for single mode (LD)	8
interfaces / other	
number of electrical connections	
• for operator console	1
for signaling contact	1
• for media module	4

for power supply	1
type of electrical connection	
 for operator console 	RJ11
 for signaling contact 	3-pole terminal block
• for power supply	3-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
 at AC / rated value 	276 V
• at DC / rated value	230 V
operating current / of the signaling contacts	
• at AC / maximum	5 A
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant	Yes
voltage supply	
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	
supply voltage / 1 / rated value	230 V
power loss [W] / 1 / rated value	42 W
supply voltage / 1 / rated value	80 276 V
 consumed current / 1 / maximum 	0.7 A
 product component / 1 / fusing at power supply 	Yes
input	
ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
• note	Extended temperature upper limit of +85° C permitted for 16
	hours. Reduced operating temperature through the use of media
	modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)
relative humidity	
 at 25 °C / without condensation / during 	95 %
operation / maximum	
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch	1
cabinet	

width	483 mm
height	44 mm
depth	305 mm
net weight	6.6 kg
mounting type	When used in shipbuilding, the device must be secured in the 19" rack at four points
• 19-inch installation	Yes
35 mm DIN rail mounting	No
wall mounting	No
S7-300 rail mounting	No
• S7-1500 rail mounting	No

product features, product functions, product components / general	
cascading in the case of a redundant ring / at	100
reconfiguration time of <\~0.3\~s	
cascading in cases of star topology	any (depending only on signal propagation time)

product functions / management, configuration, eng	gineering
product function	
• CLI	Yes
web-based management	Yes
MIB support	Yes
• TRAPs via email	Yes
configuration with STEP 7	Yes
• RMON	Yes
 port mirroring 	Yes
 multiport mirroring 	Yes
• CoS	Yes
 PROFINET IO diagnosis 	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
protocol / is supported	
● Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	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 / diagnostics	
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	255
number of VLANs - dynamic / maximum	255
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 	Yes
redundancy manager	
 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 MSTP • redundancy procedure MSTP • passive listening protocol / is supported • STP/RSTP • STP • STP • STP • RSTP • NSTP • RSTP • RSTP big network support • LACP • CACL - port/MAC-based • CAL - port/MAC-based • CAL - port/MAC-based • SSH • Product functions • ACL - fort/MAC-based • CAL - port/MAC-based • CAL - port/MAC-based • CAL - port/MAC-based • CAL - port/MAC-based • SSH	 redundancy procedure STP 	Yes
• passive listening Yes protocol / is supported • STP/RSTP Yes • STP • RSTP Yes • MSTP • RSTP Yes • Product functions / security product function • ACL - MAC-based Yes • ACL - port/MAC-based Yes • IEEE 802.1x (radius) • broadcast/funticast limiter Yes • broadcast blocking Yes • broadcast blocking Yes • product functions / time product functions / time product functions / time product function • SICLOCK support • STATP • NTP • NTP • SNTP • IEEE 1588 profile default Yes standards, specifications, approvals standard • for hazardous zone • for safety / from CSA and UL • for hazardous zone • for safety / from CSA and UL • for emitted interference • for of interference immunity FIN 61000-6-12007 (Class A) • for interference immunity FIN 61000-6-22005 MTBF standards, specifications, approvals / CE certificate of suitability / CE marking Yes standard • for EMC IEC 61850, IEEE 1613	• redundancy procedure RSTP	Yes
protocol / is supported • STP/RSTP • STP • STP • RSTP • RSTP • MSTP • RSTP • RSTP Yes • RSTP • RSTP Yes • RSTP • RSTP big network support • LACP product functions / security product functions / security product functions • ACL - MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • SSH Yes product functions / time	• redundancy procedure MSTP	Yes
• STP/RSTP	• passive listening	Yes
STP RSTP RSTP RSTP MSTP PRSTP big network support Product functions / security Product function ACL - MAC-based Pes ACL - port/MAC-based Pes Product functions Product funct	protocol / is supported	
RSTP MSTP MSTP RSTP big network support LACP Product functions / security product function ACL - MAC-based ACL - port/MAC-based Proadcast/multicast/unicast limiter Proadcast multicast/unicast limiter Product functions / security Pres Pres	• STP/RSTP	Yes
MSTP RSTP big network support LACP Pres RSTP big network support LACP Pres Product functions / security Product function ACL - MAC-based ACL - port/MAC-based Pres EB 802.1x (radius) Product functions Product functions / security Product functions / time Product function SICLOCK support Protocol / is supported NTP SNTP SNTP SNTP FIEEE 1588 profile default Pres Standard For hazardous zone For safety / from CSA and UL For emitted interference For interference immunity Final Field Standard Field Standard Final Field Standard Fi	• STP	Yes
RSTP big network support LACP Product functions / security product function ACL - MAC-based ACL - port/MAC-based Yes IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH Product functions / time product functions / time product functions / time product function SICLOCK support NTP SINTP SINTP IEEE 1588 profile default Yes standards, specifications, approvals standard for hazardous zone for hazardous zone / from CSA and UL for emitted interference for interference immunity MTBF SIADARDA SPECIFICATIONS, approvals / EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 MTBF IEC 61850, IEEE 1613	• RSTP	Yes
Product functions / security product function ACL - MAC-based Yes ACL - port/MAC-based Yes IEEE 802.1x (radius) Yes Ibroadcast blocking Yes Product functions / time product function SICLOCK support INTP SINTP SINTP IEEE 1588 profile default Yes Standards, specifications, approvals standard for hazardous zone for emitted interference for interference immunity MTBF SIANDA SPECIFICATIONS, approvals / EN 61000-6-2:2005 MTBF IEC 61850, IEEE 1613	• MSTP	Yes
product functions / security product function	RSTP big network support	Yes
product function ACL - MAC-based ACL - port/MAC-based Pes Proadcast/multicast/unicast limiter Protocol / is supported SICLOCK support Protocol / is supported NTP SITEE 1588 profile default Pes Por adards, specifications, approvals standard For interference immunity MTBF Standards, specifications, approvals / CE Certificate of suitability / CE marking Standard ACL - MAC-based Yes Yes Yes Yes Yes Yes Yes Yes	• LACP	Yes
• ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH Product functions / time product functions / time product function / sis protocol / is supported • SICLOCK support • SICLOCK support • NTP • SNTP • IEEE 1588 profile default • Standards, specifications, approvals standard • for hazardous zone • for safety / from CSA and UL • for emitted interference • for interference immunity MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking standard • for EMC IEC 61850, IEEE 1613		
ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH Yes product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default Yes standards, specifications, approvals standard for hazardous zone / from CSA and UL for emitted interference immunity MTBF ACL - port/MAC-based Yes Yes Yes Yes Yes Product function Yes Yes Product function Yes Yes Yes Product function US CLOCK support Yes Yes Ves Standards, specifications, approvals Standard		
IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH Yes product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP SNTP For iEEE 1588 profile default Yes standards, specifications, approvals standard for hazardous zone for safety / from CSA and UL for emitted interference for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking standard For EMC For EMC For EMC For EMC For EMC For EMC For EMS For		
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broadcast blocking protocol / is supported • SSH Product functions / time product function • SICLOCK support • NTP • SNTP • SNTP • IEEE 1588 profile default Standards, specifications, approvals standard • for hazardous zone • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking standard • for EMC Standards, specifications, approvals / CE certificate of suitability / CE marking Fes Yes Yes Yes Pres Yes LEC 61850, IEEE 1613	• IEEE 802.1x (radius)	Yes
protocol / is supported SSH Yes Product functions / time product function SICLOCK support Final Protocol / is supported NTP SITP SINTP SINTP IEEE 1588 profile default Standards, specifications, approvals standard for hazardous zone for safety / from CSA and UL for emitted interference for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking standard For EMC SEC 61850, IEEE 1613	broadcast/multicast/unicast limiter	Yes
Product functions / time product function SICLOCK support Fortion of the supported NTP NTP SICTION SICTION NTP SICTION SICTION Protocol / is supported NTP SICTION SICTION NTP Yes SICTION SICT	broadcast blocking	Yes
product functions / time product function • SICLOCK support Protocol / is supported • NTP • SNTP • SNTP • IEEE 1588 profile default • for hazardous zone • for safety / from CSA and UL • for emitted interference • for interference immunity MTBF standard • for supported • for emitted interference • for supported interference • for of supported interference • for interference immunity Standards, specifications, approvals / CE certificate of suitability / CE marking Yes standard • for EMC IEC 61850, IEEE 1613	protocol / is supported	
product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default Standards, specifications, approvals Standard for hazardous zone for nazardous zone / from CSA and UL for emitted interference for emitted interference for interference immunity Standards, specifications, approvals EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking for EMC IEC 61850, IEEE 1613	• SSH	Yes
SICLOCK support protocol / is supported NTP SNTP SNTP IEEE 1588 profile default Standards, specifications, approvals standard for hazardous zone for safety / from CSA and UL for emitted interference for emitted interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking Yes Yes UL 508, CSA C22.2 No. 142-M1987 No EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking Yes Standard For EMC IEC 61850, IEEE 1613	•	
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NTP SNTP SNTP IEEE 1588 profile default Standards, specifications, approvals standard for hazardous zone for safety / from CSA and UL for hazardous zone / from CSA and UL for emitted interference / for interference immunity / EN 61000-6-2:2005 MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking / Yes standard for EMC IEC 61850, IEEE 1613		Yes
SNTP IEEE 1588 profile default Standards, specifications, approvals standard for hazardous zone for safety / from CSA and UL for hazardous zone / from CSA and UL for emitted interference for interference immunity MO Standards, specifications, approvals / CE certificate of suitability / CE marking standard for EMC Yes - UL 508, CSA C22.2 No. 142-M1987 No EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 TS y Standards, specifications, approvals / CE certificate of suitability / CE marking Yes Standard For EMC IEC 61850, IEEE 1613		
IEEE 1588 profile default Standards, specifications, approvals standard • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking standard • for EMC • for EMC • for EMC Yes IEC 61850, IEEE 1613		
standards, specifications, approvals standard • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking • for EMC VL 508, CSA C22.2 No. 142-M1987 No EN 61000-6-4:2007 (Class A) EN 61000-6-4:2005 To y Standards, specifications, approvals / CE certificate of suitability / CE marking Yes Standard • for EMC	• SNTP	
standard • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity MTBF Standards, specifications, approvals / CE certificate of suitability / CE marking standard • for EMC • for hazardous zone / from CSA and UL No EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 Yes	• IEEE 1588 profile default	Yes
for hazardous zone for safety / from CSA and UL for hazardous zone / from CSA and UL for emitted interference		
 for safety / from CSA and UL for hazardous zone / from CSA and UL for emitted interference for interference immunity EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking standard for EMC IEC 61850, IEEE 1613 		
• for hazardous zone / from CSA and UL • for emitted interference • for interference immunity • for interference immunity MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking standard • for EMC IEC 61850, IEEE 1613	• for hazardous zone	
 for emitted interference for interference immunity EN 61000-6-4:2007 (Class A) EN 61000-6-2:2005 MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking standard for EMC IEC 61850, IEEE 1613 	for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
 ◆ for interference immunity EN 61000-6-2:2005 MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking Yes standard • for EMC IEC 61850, IEEE 1613 	 for hazardous zone / from CSA and UL 	No
MTBF 15 y standards, specifications, approvals / CE certificate of suitability / CE marking Yes standard • for EMC IEC 61850, IEEE 1613	• for emitted interference	EN 61000-6-4:2007 (Class A)
standards, specifications, approvals / CE certificate of suitability / CE marking Standard • for EMC IEC 61850, IEEE 1613	• for interference immunity	EN 61000-6-2:2005
certificate of suitability / CE marking standard • for EMC IEC 61850, IEEE 1613	MTBF	15 y
standard ● for EMC IEC 61850, IEEE 1613		
● for EMC IEC 61850, IEEE 1613		Yes
	standard	
standards, specifications, approvals / other	• for EMC	IEC 61850, IEEE 1613
	standards, specifications, approvals / other	

certificate of suitability

• C-Tick

Yes

EN 61000-6-2:2005, EN 61000-6-4:2007

• IEC 61850-3

Yes

KC approval

Yes

standards, specifications, approvals / marine classification

Marine classification association

Bureau Veritas (BV)

Yes

Korean Register of Shipping (KRS)

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

security information

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