# **SIEMENS**

### Data sheet

## 6GK5324-4QG10-1AR2

SCALANCE XR324-4M PoE; Managed IE switch, 19" rack; 8x 10/100/1000 Mbit/s for RJ45 ports electrical with PoE, 8x 10/100/1000 Mbit/s for RJ45 ports electrical without PoE; 4x 10/100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, Power supply 24 V DC; Ports in the front



Product type designation	SCALANCE XR324-4M PoE
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>	16; RJ45
<ul><li>for Power-over-Ethernet / for network</li></ul>	8
components or terminal equipment	
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

Operating voltage / of the signaling contacts     • at DC / Rated value  Operating current / of the signaling contacts     • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  DC  Supply voltage     • external     • external     • external / minimum     • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  For an input for supply voltage  Consumed current / maximum  4.2 A  Power loss [W]     • at DC / at 24 V		
• for power supply • for redundant voltage supply 1 Type of electrical connection • for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG  Signal inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  Outlage supply / redundant power supply unit Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage • external • external / minimum • external / maximum  • external / missing at power supply input • external / maximum  Product component / fusing at power supply voltage  Consumed current / maximum  Product component / sunger supply voltage  Anabient temperature • during operation • during storage • during transport • during paration • during storage • during transport • Auticula Silve (With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight	<ul> <li>for signaling contact</li> </ul>	1
• for redundant voltage supply Type of electrical connection • for operator console • for operator console • for operator console • for operator console • for power supply  design of the removable storage • C-PLUG  Ves  Signal inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  Operating current / of the signaling contacts • at DC / maximum  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage yold / of the supply voltage  • external • external / minimum • external / minim	• for media module	4
Type of electrical connection  • for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG  Signal inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value Operating current / of the signaling contacts • at DC / maximum  O1.1 A  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage supply / redundant power supply unit O2.8 Usernal / minimum • external / maximum  • external / minimum • external / minimum • external / minimum • external / maximum  Product component / fusing at power supply input Fuse protection type / at input for supply voltage  Consumed current / maximum  Prower loss [M] • at DC / at 24 V  Ambient conditions  Ambient temperature • during operation • during storage • during transport • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight	<ul><li>for power supply</li></ul>	1
• for operator console • for signaling contact • for power supply design of the removable storage • C-PLUG  Ves  Signal inputs/outputs  Operating voltage / of the signaling contacts • at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  Operating current / of the signaling contacts • at DC / maximum  On I A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • external • external / maximum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  • at DC / at 24 V  Ambient conditions  Ambient temperature • during operation • during storage • during transport • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	<ul> <li>for redundant voltage supply</li> </ul>	1
• for signaling contact     • for power supply     design of the removable storage     • C-PLUG     Yes  Signal inputs/outputs  Operating voltage / of the signaling contacts     • 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 supply / redundant power supply unit     Type of voltage / of the supply voltage     Supply voltage     • external     • external / maximum     19.2 V     • external / maximum     19.2 V     • external / fusing at power supply input     • external / fusing at power supply voltage     Fuse protection type / at input for supply voltage     Fuse protection type / at voltage input for supply voltage     Fuse protection type / at voltage input for supply voltage     Veternal / voltage input for supply voltage input for supply voltage     Veternal / voltage input for supply voltage inpu	Type of electrical connection	
• for power supply  design of the removable storage     • C-PLUG  Signal inputs/outputs  Operating voltage / of the signaling contacts     • at DC / Rated value  Operating current / of the signaling contacts     • at DC / Raximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage  Supply voltage  • external  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Fower loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation • during storage • during transport • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	• for operator console	RJ11
design of the removable storage  • C-PLUG  Signal inputs/outputs  Operating voltage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage supply / redundant power supply unit  Type of voltage of the supply voltage  OC  Supply voltage  • external  • external / minimum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  Power loss [W]  • at DC / at 24 V  Ambient temperature  • during operation  • during storage  • during transport  • during storage  • during transport  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight	• for signaling contact	2-pole terminal block
Signal inputs/outputs Operating voltage / of the signaling contacts  • at DC / Rated value  Operating current / of the signaling contacts  • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss Type of voltage supply / redundant power supply unit Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage  Supply voltage  • external  • external  • external / minimum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  4.2 A  Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  • Note  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	• for power supply	4-pole terminal block
Signal inputs/outputs Operating voltage / of the signaling contacts	design of the removable storage	
Operating voltage / of the signaling contacts	• C-PLUG	Yes
• at DC / Rated value  Operating current / of the signaling contacts • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  Supply voltage • external • external • external / minimum • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  Power loss [W] • at DC / at 24 V  Ambient conditions  Ambient temperature • during operation • during storage • during transport • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pess  In Design, dimensions and weight	Signal inputs/outputs	
Operating current / of the signaling contacts  • at DC / maximum  O.1 A  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  Supply voltage  • external  • external / external / minimum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  • Note  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Poser loss IP  IP20  Design, dimensions and weight	Operating voltage / of the signaling contacts	
• at DC / maximum  Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  Supply voltage  • external  • external / external / maximum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  4.2 A  Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  • Note  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Poser loss IP  IP20  Design, dimensions and weight	• at DC / Rated value	24 V
Supply voltage, current consumption, power loss  Type of voltage supply / redundant power supply unit  Type of voltage / of the supply voltage  • external  • external / minimum  • external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation  • during storage  • during transport  • Note  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pose To A / V  Ambient temperature / 40 +60 °C  - With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	Operating current / of the signaling contacts	
Type of voltage supply / redundant power supply unit Type of voltage / of the supply voltage  Supply voltage  external  external / external / minimum  external / maximum  Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  For a / 25 or / without condensation / during operation / maximum  Power loss [W]  during storage  during transport  Note  Relative humidity  e at 25 °C / without condensation / during operation / maximum  Protection class IP  Posign, dimensions and weight	• at DC / maximum	0.1 A
Type of voltage / of the supply voltage  Supply voltage  • external	Supply voltage, current consumption, power loss	
Supply voltage  • external  • external / minimum  • external / maximum  28.8 V  Product component / fusing at power supply input Fuse protection type / at input for supply voltage  F 5 A / 250 V  Consumed current / maximum  4.2 A  Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation • during storage • during transport • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight		No
external		DC
external / minimum     external / maximum     28.8 V  Product component / fusing at power supply input Fuse protection type / at input for supply voltage  Consumed current / maximum     4.2 A  Power loss [W]     • at DC / at 24 V  Ambient conditions  Ambient temperature     • during operation     • during storage     • during transport     • Note  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity     • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	Supply voltage	
external / maximum     28.8 V  Product component / fusing at power supply input Fuse protection type / at input for supply voltage F 5 A / 250 V  Consumed current / maximum 4.2 A  Power loss [W]     • at DC / at 24 V  Ambient conditions  Ambient temperature     • during operation     • during storage     • during transport     • Note     With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity     • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	• external	24 V
Product component / fusing at power supply input  Fuse protection type / at input for supply voltage  Consumed current / maximum  4.2 A  Power loss [W]  • at DC / at 24 V  46 W   Ambient conditions  Ambient temperature  • during operation • during storage • during transport • Note  Note  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	• external / minimum	19.2 V
Fuse protection type / at input for supply voltage  Consumed current / maximum  4.2 A  Power loss [W]  at DC / at 24 V  46 W  Ambient conditions  Ambient temperature  during operation  during storage  during transport  Note  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity  at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	external / maximum	28.8 V
Consumed current / maximum  Power loss [W]  at DC / at 24 V  46 W  Ambient conditions  Ambient temperature  during operation during storage during transport Note  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight		Yes
Power loss [W]  • at DC / at 24 V  Ambient conditions  Ambient temperature  • during operation • during storage • during transport • Note  Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Power loss [W]  46 W  46 W  46 W  -40 +60 °C  -40 +85 °C  With vertical installation, the maximum operating temperature is reduced to 60 °C.	Fuse protection type / at input for supply voltage	F 5 A / 250 V
● at DC / at 24 V  Ambient conditions  Ambient temperature  ● during operation  ● during storage  ● during transport  ● Note  Relative humidity  ● at 25 °C / without condensation / during operation / maximum  Protection class IP  Ambient conditions  -40 +80 °C  -40 +85 °C  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity  95 %  IP20	Consumed current / maximum	4.2 A
Ambient conditions  Ambient temperature  • during operation • during storage • during transport • Note  • Note  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Ambient conditions  -40 +60 °C  -40 +85 °C  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity  95 %  IP20	Power loss [W]	
Ambient temperature  • during operation  • during storage  • during transport  • Note  • Note  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pesign, dimensions and weight  -40 +85 °C  -40 +85 °C  With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity  95 %  IP20	• at DC / at 24 V	46 W
<ul> <li>during operation         <ul> <li>during storage</li> <li>during transport</li> <li>Note</li> </ul> </li> <li>Relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>Protection class IP</li> <li>IP20</li> </ul>	Ambient conditions	
<ul> <li>during storage</li> <li>during transport</li> <li>Note</li> <li>With vertical installation, the maximum operating temperature is reduced to 60 °C.</li> <li>Relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>Protection class IP</li> <li>IP20</li> </ul>		
<ul> <li>during transport</li> <li>Note</li> <li>With vertical installation, the maximum operating temperature is reduced to 60 °C.</li> <li>Relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>Protection class IP</li> <li>Design, dimensions and weight</li> </ul>	during operation	
Note     With vertical installation, the maximum operating temperature is reduced to 60 °C.  Relative humidity     at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight		
reduced to 60 °C.  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  IP20  Design, dimensions and weight	during transport	
at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weight  95 %  IP20	• Note	
operation / maximum  Protection class IP  Design, dimensions and weight	Relative humidity	
Protection class IP IP20  Design, dimensions and weight	• at 25 °C / without condensation / during	95 %
Design, dimensions and weight	operation / maximum	
	Protection class IP	IP20
Design 19" rack		
	Design	19" rack

Number of modular height units / relating to 19-inch	1
cabinet	
Width	449 mm
Height	43.6 mm
Depth	305 mm
Net weight	6.8 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, 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
Port mirroring	Yes
multiport mirroring	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	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

Yes	
Yes	
Yes	
Yes	
Yes	
Yes	
Yes	
No	
No	
Yes	
255	
255	
Yes	
Yes	
Yes	
Yes	
Yes	
Product functions / redundancy	
Yes	
Yes	
Yes	
Yes	
Yes	

<ul> <li>media redundancy protocol (MRP) with redundancy manager</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
<ul> <li>Parallel Redundancy Protocol</li> <li>(PRP)/Redundant Network Access (RNA)</li> </ul>	No
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
<ul> <li>RSTP big network support</li> </ul>	Yes
• LACP	Yes
Product functions / Security	
Product function	
• ACL - MAC-based	Yes
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
• 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
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
● IEEE 1588 profile default	Yes
Standards, specifications, approvals	
Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1

• for hazardous zone / from CSA and UL

UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No.

213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 /

Zone 2 / Group IIC / T4

• for emitted interference EN 61000-6-4:2007 (Class A)

• for interference immunity EN 61000-6-2:2006

MTBF 15 y

#### Standards, specifications, approvals / CE

Certificate of suitability / CE marking Yes

#### Standards, specifications, approvals / other

Certificate of suitability EN 61000-6-2:2006, EN 61000-6-4:2007

C-TickKC approvalYes

#### Standards, specifications, approvals / marine classification

Marine classification association

Bureau Veritas (BV)
 Yes

Korean Register of Shipping (KRS)

#### Further information / Internet-Links

#### Internet-Link

• to website: Selector SIMATIC NET

SELECTION TOOL

http://www.siemens.com/snst

• to website: Industrial communication <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>

• to website: Industry Mall https://mall.industry.siemens.com

• to website: Information and Download Center http://www.siemens.com/industry/infocenter

• to website: Image database http://automation.siemens.com/bilddb

• to website: CAx Download Manager <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>

• to website: Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### Security information

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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