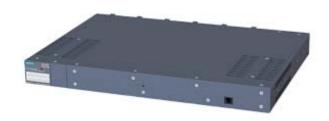
# **SIEMENS**

# Data sheet

# 6GK5324-0GG10-3HR2

SCALANCE XR324-12M; managed IE switch, 19" rack; 12x 100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery; Power supply 230 V AC; Ports at the back



Product type designation	SCALANCE XR324-12M
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / Integrated	
Number of 100 Mbit/s ST(BFOC) ports	
• for multimode	24
Number of 100 Mbit/s SC ports	
• for multimode	24
Number of 1000 Mbit/s LC ports	
• for multimode	24
• for single mode (LD)	24
Interfaces / other	
Number of electrical connections	
• for operator console	1
<ul><li>for signaling contact</li></ul>	1
• for media module	12
• for power supply	1
<ul> <li>for redundant voltage supply</li> </ul>	0

Type of electrical connection	
• for operator console	RJ11
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul><li>for power supply</li></ul>	2-pole terminal block
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	No
Type of voltage / of the supply voltage	AC
Supply voltage	
• external	230 V
external / minimum	85 V
external / maximum	264 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	3.15 A / 250 V
Consumed current / maximum	0.8 A
Power loss [W]	
• at AC / at 230 V	50 W
Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	-40 +70 °C
during storage	-40 +85 °C
<ul> <li>during transport</li> </ul>	-40 +85 °C
• Note	Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C). If the device is installed in the vertical position, the maximum operating temperature is reduced to +50 °C.
Relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP20
Design, dimensions and weights	
Design	19" rack
Number of modular height units / relating to 19-inch cabinet	1
Width	483 mm
Height	44 mm

Depth	305 mm
Net weight	5.9 kg
Product feature / conformal coating	Yes
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
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
PROFINET conformity class	В
Product function / switch-managed	Yes
Protocol / is supported	
<ul><li>Telnet</li></ul>	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	
1&M0 - device-specific information	Yes
I&M1 – higher-level designation/location	Yes
designation	
Product functions / Diagnostics	
Product function	
<ul> <li>Port diagnostics</li> </ul>	Yes
Statistics Packet Size	Yes
Statistics packet type	Yes
Error statistics	Yes
• SysLog	Yes
Product functions / VLAN	
Product function	
<ul> <li>VLAN - port based</li> </ul>	Yes
<ul> <li>VLAN - protocol-based</li> </ul>	No
VLAN - IP-based	No
<ul> <li>VLAN dynamic</li> </ul>	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
<ul><li>DHCP Option 82</li></ul>	Yes
<ul> <li>DHCP Option 66</li> </ul>	Yes
DHCP Option 67	Yes
Product functions / redundancy	
Product function	
Ring redundancy	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes

• redundancy procedure MSTP  • Parallel Redundancy Protocol (PRP)/operation in the PRF-network  • Parallel Redundancy Protocol (PRP)/Protocol (PR)/Protocol (PRP)/Protocol (PR)/Protocol (	<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
in the PRP-network Parallel Redundanty Protocol (PRP)/Redundant Network Access (RNA) Passive listening Protocol / is supported STP/RSTP STP STP STP STP STP STP STP STP STP	<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
(PRP)/Redundart Network Access (RNA)  Passive listening  Protocol / is supported  STP/RSTP  STP  STP  RSTP  NSTP  RSTP  Product functions / Security  Product function  ACL - MAC-based  ACL - port/MAC-based  ACL - port/MAC-based  ACL - port/MAC-based  ACL - port/MAC-based  SBH  Product functions / Yes  IEEE 802.1x (radius)  Broadcast/Multicast/Unicast Limiter  broadcast blocking  Protocol / is supported  SSH  Product functions / Yes  Protocol / is supported  SSH  Product functions / Yes  STR  Protocol / is supported  SSH  SSH  Protocol / is supported  SSH  SSH  Protocol / is supported  SSH  Protocol / is supported  SSH  SSH  Protocol / is supported  SSH  Protocol / is supported  SSH  SSH  Protocol / is supported  SSH  Protocol / is supported  SSH  SSH  Protocol / is		Yes
Protocol / is supported  • STP/RSTP  • STP  • STP  • STP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP  Product functions / Security  Product function  • ACL - MAC-based  • ACL - port/MAC-based  • IEEE 802.1x (radius)  • Broadcast/Multicast/Unicast Limiter  • broadcast blocking  Protocol / is supported  • SSH  Product function  • SICLOCK support  Product function  • SICLOCK support  • STP  • IEEE 1588 profile default  Standards, specifications, approvals  Standard  • for hazardous zone  • for safety / from CSA and UL  • for emitted interference  • for interference immunity  MTBF  STAND  Ves  Yes  Yes  Yes  Yes  Ves  Ves  Ves	Parallel Redundancy Protocol	No
Protocol / is supported	(PRP)/Redundant Network Access (RNA)	
STP/RSTP STP STP STP STP RSTP RSTP MSTP MSTP PRODUCT functions / Security  Product function ACL - MAC-based Field Security  Product function ACL - MAC-based Field Security  Product function Security  Product function ACL - MAC-based Field Security  Product function ACL - MAC-based Field Security  Product function ACL - MAC-based Field Security  Product function Field Security  Product function Side Security	Passive listening	Yes
• STP • RSTP • RSTP • MSTP • MSTP • RSTP big network support • LACP  Product functions / Security  Product function • ACL - 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 functions / time  Protocol / is supported • SICLOCK support • SICLOCK support • NTP • SICLOCK supported • NTP • SNTP • IEEE 1588 profile default  Standards, specifications, approvals  Standards • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for maxing functions, approvals / EN 61000-6-4:2007 (Class A) • for interference immunity  MTBF  Standards, specifications, approvals / CE	Protocol / is supported	
RSTP  MSTP  MSTP  RSTP big network support  LACP  Product functions / Security  Product function  ACL - MAC-based  ACL - port/MAC-based  ACL - port/MAC-based  EIEEE 802.1 x (radius)  Broadcast/Multicast/Unicast Limiter  broadcast blocking  Protocol / is supported  SSH  Product functions / time  Product functions / time  Product function  SICLOCK support  NTP  SICLOCK support  NTP  SICLOCK supported  NTP  Frotocol / is supported  NTP  Frotocol / is supported  NTP  STATP  UEEE 1588 profile default  Ves  Standards, specifications, approvals  Standard  for hazardous zone  for safety / from CSA and UL  for hazardous zone / from CSA and UL  for or mazardous zone / from CSA and UL  for or mazardous zone / from CSA and UL  for or mazardous zone / from CSA and UL  for interference immunity  EN 61000-6-4:2007 (Class A)  EN 61000-6-2:2005  MTBF  Standards, specifications, approvals / CE	• STP/RSTP	Yes
MSTP RSTP big network support LACP  Product functions / Security  Product function ACL - MAC-based ACL - port/MAC-based REEE 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  Protocol / is supported NTP STP STP REEE 1588 profile default  Standard For hazardous zone For hazardous zone For emitted interference For interference immunity  MTBF  Standards, specifications, approvals / CE  Standards, specifications, approvals / CE  Standards, specifications, approvals / CE	• STP	Yes
RSTP big network support LACP Product functions / Security  Product function ACL - MAC-based ACL - port/MAC-based For acceptable for a security  Product function  ACL - MAC-based ACL - port/MAC-based For acceptable for a security  Prosecution of the security  Prosecution of the security Prosecution of the security Prosecution of the security of the	• RSTP	Yes
Product functions / Security  Product function  ACL - MAC-based Yes  ACL - port/MAC-based Yes  IEEE 802.1x (radius) Yes  Broadcast/Multicast/Unicast Limiter Yes  broadcast blocking Yes  Protocol / is supported  SSH Yes  Product functions / time  Product functions / time  Product function  SICLOCK support Yes  Protocol / is supported  NTP Yes  SITP Yes  SITP Yes  SITE 1588 profile default Yes  Standards, specifications, approvals  Standard  for hazardous zone  for hazardous zone / from CSA and UL  for emitted interference EN 61000-6-4:2007 (Class A)  for interference immunity EN 61000-6-2:2005  MTBF 15 y  Standards, specifications, approvals / CE	• MSTP	Yes
Product functions / Security  Product function  ACL - MAC-based ACL - port/MAC-based Pess Froadcast/Multicast/Unicast Limiter Protocol / is supported SSH  Product functions / time  Product functions / time  Product functions / time  Product function / SICLOCK support Protocol / is supported NTP SICLOCK support Protocol / is supported Protocol / is puported Protocol / is puported Protocol / is puported NTP SICLOCK support N	<ul> <li>RSTP big network support</li> </ul>	Yes
Product function  • 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 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  Mes  Yes  Yes  Yes  Yes  Yes  Yes  UL 508, CSA C22.2 No. 142-M1987  No  EN 61000-6-4:2007 (Class A)  EN 61000-6-2:2005  MTBF  15 y  Standards, specifications, approvals / CE	• LACP	Yes
ACL - MAC-based ACL - port/MAC-based Pes Broadcast/Multicast/Unicast Limiter Broadcast/Multicast/Unicast Limiter Broadcast/Multicast/Unicast Limiter Broadcast/Multicast/Unicast Limiter Broadcast blocking Protocol / is supported SSH Product functions / time  Product function SICLOCK support Protocol / is supported NTP SNTP SNTP SNTP IEEE 1588 profile default Product functions, approvals  Standard  For hazardous zone For hazardous zone / from CSA and UL For emitted interference For interference immunity For homosy, approvals / CE  Standards, specifications, approvals / CE	Product functions / Security	
ACL - port/MAC-based     IEEE 802.1x (radius)     Broadcast/Multicast/Unicast Limiter     broadcast blocking  Protocol / is supported     SSH  Product functions / time  Product function     SICLOCK support      NTP     SNTP     SNTP     IEEE 1588 profile default  Standard     for hazardous zone     for safety / from CSA and UL     for emitted interference     for interference immunity  MTBF  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Product function	
IEEE 802.1x (radius)  Broadcast/Multicast/Unicast Limiter  broadcast blocking  Protocol / is supported  SSH  Yes  Product functions / time  Product function  SICLOCK support  Yes  Protocol / is supported  NTP  SNTP  SNTP  IEEE 1588 profile default  Yes  Standard  for hazardous zone  for safety / from CSA and UL  for emitted interference  for interference immunity  MTBF  Yes  Yes  Yes  Yes  Yes  LEEE 1588 Profile default  Yes  LEEE 1588 profile default  LEEE 1588 Profile default  For hazardous zone  For hazardous zone  For interference immunity  EN 61000-6-4:2007 (Class A)  FN 61000-6-2:2005  MTBF  Standards, specifications, approvals / CE	• ACL - MAC-based	Yes
Broadcast/Multicast/Unicast Limiter broadcast blocking  Protocol / is supported SSH  Yes  Product functions / time  Product function SICLOCK support  Protocol / is supported NTP SNTP SIEEE 1588 profile default  Standards, specifications, approvals  Standard  for hazardous zone for hazardous zone / from CSA and UL for emitted interference for interference immunity  EN 61000-6-4:2007 (Class A)  ET 9  Standards, specifications, approvals / CE  Standards, specifications, approvals / CE	<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
broadcast blocking     Protocol / is supported	• IEEE 802.1x (radius)	Yes
Protocol / is supported  SSH  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  for safety / from CSA and UL  for emitted interference  for interference immunity  MTBF  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
Product functions / time  Product function  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 interference immunity  MTBF  Standards, specifications, approvals / CE	<ul> <li>broadcast blocking</li> </ul>	Yes
Product functions / time  Product function  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 interference immunity  MTBF  Standards, specifications, approvals / CE	Protocol / is supported	
Product function  SICLOCK support  Protocol / is supported  NTP SNTP SNTP 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	• SSH	Yes
SICLOCK support  Protocol / is supported  NTP SNTP SNTP IEEE 1588 profile default  Standards, specifications, approvals  Standard  for hazardous zone for hazardous zone / from CSA and UL for emitted interference for interference immunity  MTBF  Standards, specifications, approvals / CE  Yes  Yes  Yes  Yes  Left 1588 profile default Left 1588 profile defau		
Protocol / is supported  • NTP  • 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  MTBF  Standards, specifications, approvals / CE	Product function	
NTP SNTP IEEE 1588 profile default  Standards, specifications, approvals  Standard  of or hazardous zone for safety / from CSA and UL  of or hazardous zone / from CSA and UL  of or emitted interference for interference immunity  MTBF  Yes  Yes  Yes  Yes  Luccomparison of the second of the secon	<ul> <li>SICLOCK support</li> </ul>	Yes
SNTP  IEEE 1588 profile default  Standards, specifications, approvals  Standard  In for hazardous zone  In for safety / from CSA and UL  In for hazardous zone / from CSA and UL  In for emitted interference  In for interference immunity  MTBF  Standards, specifications, approvals / CE	Protocol / is supported	
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  Yes  Yes  Yes  Yes  Standards, specifications, approvals  UL 508, CSA C22.2 No. 142-M1987  No  EN 61000-6-4:2007 (Class A)  EN 61000-6-2:2005	• NTP	Yes
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	• SNTP	Yes
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	● IEEE 1588 profile default	Yes
<ul> <li>for hazardous zone</li> <li>for safety / from CSA and UL</li> <li>for hazardous zone / from CSA and UL</li> <li>for emitted interference</li> <li>for interference immunity</li> <li>MTBF</li> <li>Standards, specifications, approvals / CE</li> <li>UL 508, CSA C22.2 No. 142-M1987</li> <li>No</li> <li>EN 61000-6-4:2007 (Class A)</li> <li>EN 61000-6-2:2005</li> </ul>		
<ul> <li>for safety / from CSA and UL</li> <li>for hazardous zone / from CSA and UL</li> <li>for emitted interference</li> <li>for interference immunity</li> <li>MTBF</li> <li>Standards, specifications, approvals / CE</li> <li>UL 508, CSA C22.2 No. 142-M1987</li> <li>No</li> <li>EN 61000-6-4:2007 (Class A)</li> <li>EN 61000-6-2:2005</li> </ul>	Standard	
<ul> <li>for hazardous zone / from CSA and UL</li> <li>for emitted interference</li> <li>for interference immunity</li> <li>MTBF</li> <li>Standards, specifications, approvals / CE</li> </ul> No <ul> <li>EN 61000-6-4:2007 (Class A)</li> <li>EN 61000-6-2:2005</li> </ul> To y Standards, specifications, approvals / CE	• for hazardous zone	-
• for emitted interference     • for interference immunity     • For interference immunity      • For interference immunity  EN 61000-6-4:2007 (Class A)  EN 61000-6-2:2005  MTBF  15 y  Standards, specifications, approvals / CE	<ul><li>for safety / from CSA and UL</li></ul>	UL 508, CSA C22.2 No. 142-M1987
• for interference immunity EN 61000-6-2:2005  MTBF 15 y  Standards, specifications, approvals / CE	<ul><li>for hazardous zone / from CSA and UL</li></ul>	No
MTBF 15 y  Standards, specifications, approvals / CE	• for emitted interference	
Standards, specifications, approvals / CE	• for interference immunity	EN 61000-6-2:2005
	MTBF	15 y
Certificate of suitability / CE marking Yes		
	Certificate of suitability / CE marking	Yes

#### Standards, specifications, approvals / other

Certificate of suitability

-Tick

C-Tick

Railway application in accordance with EN 50155

KC approval

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

Yes

No

Yes

## Standards, specifications, approvals / marine classification

Marine classification association

• Bureau Veritas (BV)

• Korean Register of Shipping (KRS)

Yes

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

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. Third-party 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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