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Data sheet 6GK5324-4GG10-4ER2

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 2x 230 V AC; Ports in the front.

product type designation	
product brand name	SCALANCE
product type designation	XR324-4M EEC
Technical Product Detail Page	https://i.siemens.com/1P6GK5324-4GG10-4ER2
transfer rate	
transfer rate	10, 100, 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
interfaces / other	
number of electrical connections	
● for operator console	1
● for signaling contact	1
● for media module	4
● for power supply	2
type of electrical connection	
● for operator console	RJ11
● for signaling contact	2 x 3-pole terminal block
● for power supply	2 x 3-pole terminal block
design of the removable storage	
● C-PLUG	Yes
operating voltage / of the signaling contacts	
● at AC / rated value	276 V
● at DC / rated value	230 V
operational current / of the signaling contacts	
● at AC / maximum	5 A
● at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
type of voltage supply / redundant power supply unit	Yes
type of voltage / 1 / of the supply voltage	AC
● supply voltage / 1 / rated value	230 V
● power loss [W] / 1 / rated value	42 W
● supply voltage / 1 / voltage range	80 ... 276
● consumed current / 1 / maximum	0.7 A
● type of electrical connection / 1 / for power supply	2 x 3-pole terminal block
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	3,15 A / 250 V
type of voltage / 2 / of the supply voltage	DC
● power loss [W] / 2 / rated value	42 W
● consumed current / 2 / at rated supply voltage / maximum	0.7 A
● supply voltage / 2 / voltage range	60 ... 250
● type of electrical connection / 2 / for power supply	2 x 3-pole terminal block
ambient conditions	

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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 operation / maximum	95 %
protection class IP	IP20
design, dimensions and weights	
design	19-inch rack
number of modular height units / relating to 19-inch cabinet	1
width	483 mm
height	44 mm
depth	305 mm
net weight	7 kg
fastening method	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 reconfiguration time of <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
product functions / management, configuration, engineering	
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
● switch-managed	Yes
PROFINET conformity class	B
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 designation	Yes

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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
product functions / DHCP	
product function	
● 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
● ring redundancy	Yes
● high speed redundancy protocol (HRP) with redundancy manager	Yes
● high speed redundancy protocol (HRP) with standby redundancy	Yes
● redundancy procedure STP	Yes
● redundancy procedure RSTP	Yes
● redundancy procedure MSTP	Yes
● passive listening	Yes
protocol / is supported	
● STP/RSTP	Yes
● STP	Yes
● RSTP	Yes
● MSTP	Yes
● RSTP big network support	Yes
● LACP	Yes
product functions / security	
product function	
● IEEE 802.1x (radius)	Yes
● broadcast/multicast/unicast limiter	Yes
● broadcast blocking	Yes
protocol / is supported	
● SSH	Yes
product functions / time	
product function	
● SICLOCK support	Yes
protocol / is supported	
● NTP	Yes
● SNTP	Yes
● IEEE 1588 profile default	Yes
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes

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● UKCA marking	Yes
● cULus approval	Yes
● KC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
standard	
● for EMC	IEC 61850, IEEE 1613
● for EMC interference emission	EN 61000-6-4:2007 (Class A)
● for immunity to EMC	EN 61000-6-2:2005
● for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
standards, specifications, approvals / other	
certificate of suitability	
● IEC 61850-3	Yes
● RoHS conformity	Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
standards, specifications, approvals / marine classification	
certificate of suitability / shipbuilding approval / note	Certifications marked 'No' are currently under renewal.
Marine classification association	
● Det Norske Veritas (DNV)	No
● Royal Institution of Naval Architects (RINA)	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	601.38 kg
● during manufacturing	207 kg
● during operation	393.45 kg
● after end of life	0.93 kg
product functions / general	
MTBF	20 a
warranty period	5 a
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	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
● to website: Industry Online Support	https://support.industry.siemens.com
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	
Environmental Product Declaration	
● global warming potential [CO2 eq] / during manufacturing	207 kg
● global warming potential [CO2 eq] / during operation	393.45 kg
● global warming potential [CO2 eq] / after end of life	0.93 kg

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● global warming potential [CO2 eq] / total	601.38 kg

Environment	General Product Approval				
EPD	UK CA	CE EG-Konf.	Declaration of Conformity	EAC	UL

General Product Approval		Test Certificates	Maritime application		
RCM	China RoHS	Type Test Certificates/Test Report	ABS	BUREAU VERITAS	DNV

Maritime application	
NK / Nippon Kaiji Kyokai	RINA

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