## SIEMENS

## Data sheet

## 6GK5308-2GG10-2CA2



SCALANCE X308-2M TS; managed IE switch, compact; 4x 10/100/1000 Mbit/s for RJ45 ports electrical; 2x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; PROFINET IO device; network management; integrated redundancy manager; Office features (RSTP, VLAN, IGMP,...); C-plug in scope of delivery extended temperature range with railway approval EN 50155;

product type designation	SCALANCE X308-2M TS			
product type designation transfer rate	JUALANUE AJU0-2111 13			
transfer rate	10 Mbit/c 100 Mbit/c 1000 Mbit/c			
	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s			
interfaces / for communication / maximum configuration for mod				
number of electrical ports / maximum	8			
number of optical ports / maximum	4			
interfaces / for communication / integrated				
number of electrical connections				
for network components or terminal equipment	4			
number of 10/100/1000 Mbit/s RJ45 ports / integrated				
with securing collar	4			
number of connectable media modules				
with 2 ports	2			
interfaces / other				
number of electrical connections				
<ul> <li>for signaling contact</li> </ul>	1			
<ul> <li>for media module</li> </ul>	2			
for power supply	1			
type of electrical connection				
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block			
<ul> <li>for power supply</li> </ul>	4-pole terminal block			
design of the removable storage				
• C-PLUG	Yes			
signal inputs/outputs				
operating voltage / of the signaling contacts				
<ul> <li>at DC / rated value</li> </ul>	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 supply / redundant power supply unit	No			
type of voltage / 1 / of the supply voltage	DC			
<ul> <li>supply voltage / 1 / rated value</li> </ul>	12 V			
<ul> <li>power loss [W] / 1 / rated value</li> </ul>	16.6 W			
<ul> <li>supply voltage / 1 / rated value</li> </ul>	20 30 V			
<ul> <li>consumed current / 1 / maximum</li> </ul>	0.7 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			
ambient conditions				
ambient temperature				

<ul> <li>during operation</li> </ul>	-40 +70 °C
during storage	-40 +70 °C
<ul> <li>during transport</li> </ul>	-40 +70 °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	
• at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	124 mm
net weight	1.4 kg
product feature / conformal coating	Yes
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
• 19-inch installation	No
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
• S7-1500 rail mounting	No
product features, product functions, product components / gen	leral
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
<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
PROFINET IO diagnosis	Yes
PROFINET conformity class	B
product function / switch-managed	Yes
protocol / is supported	
Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• F1F • BOOTP	Yes
• GMRP	Yes
• GMRP • DCP	Yes
• DCP • LLDP	Yes
	Yes
• SNMP v1	
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	Ver
I&M0 - device-specific information	Yes
<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
product functions / diagnostics	
product function	

port diagnostics	Yes
statistics Packet Size	Yes
<ul> <li>statistics packet type</li> </ul>	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
<ul> <li>VLAN - IP-based</li> </ul>	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
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy</li> </ul>	Yes
<ul><li>manager</li><li>high speed redundancy protocol (HRP) with standby</li></ul>	Yes
redundancy protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
media redundancy protocol (MRP) with redundancy	Yes
manager	
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
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	
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 function	
SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes

standard, specifications, approvals         1.00           standard, specifications, approvals         FM 000000000000000000000000000000000000	IEEE 1588 profile default	Yes
standard • for FM <ul> <li>for FM for a mitsel interference for matsel according to life C 81348-2 for matsel for matsel</li></ul>		
<ul> <li>for FM</li> <li>for safety / form GSA and UL</li> <li>for orither interforms</li> <li>for interforms community</li> <li>Freierine code</li> <li>according to EE 03346-2</li> <li>according to EE 03466-2</li> <li>according to EE 034</li></ul>		
16     16       • for safely / from CSA and UL     UL 0805-0., CSA C222 No. 60650-1       • for mitted interformence     EN 61000-8-2       • MTPF     40 a       • for mitted interformence     EN 61000-8-2       • for mitted interformence     EN 61000-8-2       • for mitted interformence     EN 61000-8-2       • for entited interformence     EN 60100-8-2       • for entited interformence     EN 60078-01-2006, EN 60078-15-2006, II 3 G Ex nA II T4 KEMA 07 ATEX       • form CSA and UL     Control File Standards       • form CSA and UL     Control File Standards       • entities of subability / CE marking     Yes       • form CSA and UL     Control File Standards       • entities of subability     EN 80078-01-2006, EN 60078-15-2006, II 3 G Ex nA II T4 KEMA 07 ATEX       • form CSA and UL     Control File Standards       • CCC / for hazardous zone according to CB standard     Yes       • CCC / for hazardou zone according to CB standard     Yes       • Control File Standards     Specifications       • railway application in accordance with EN 60155     Yes       • railway application in accordance with EN 60152     Yes       • railway application in accordance with EN 60154     Yes       • railway application in accordance with EN 60155     Yes       • railway application in accordance with EN 60154     Yes		
• for safely from CSA and UL     UL 6050-1, CSA C322 No. 20590-1       • for interference     FIN 51000-6.4       • for interference immunity     FIN 51000-7.2       • according to EC 5134-2.2     KF       • according to EX 5134-2.2     KF	• for FM	
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certification of subpling (CE marking         Yes           standard /s ppelfications, approvals / hazardous environments         EN 80079-0: 2006, EN 80079-15: 2005, II 3 G EX nA II 14 KEMA 07 ATEX 0145X           • from CSA and UL         U. 1604 and UL 2279-15 (Hazardous Location), CSA C22 2 No. 213 M1 997, Class 1 / Division 2 / Group A, B, C, D. / T4, Class 1 / Zone 2 / Group IIC / T4           • efficited of suitability         • (CC / for hazardous zone according to GB standard / as marking         Yes           • cand /r for hazardous zone according to GB standard / as marking         Ex nA IIC T4 Gc           • efficited of suitability         EN 61000-6-2, EN 61000-6-4           • CC / for hazardous zone according to GB standard / as marking         Yes           • CC approval         Yes           • CC approval         Yes           • Capproval         Yes           • alway application in accordance with EN 50155         Yes           • alway application in accordance with EN 45545-2         Yes           standards, specification association         Yes           internet Inik         Internet Inika           Internet Inika         Internet Inika           Internet Inika         Internet Inika           • to website: Industry Mail         Internet Inical Initiation and Download Center           • to website: Industry Mail         Internet Initiation and Download Center		KFE
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standard / for hazardous zone         EN 8079-15: 2006. EN 80079-15: 2005, II 3 G Ex Ai II 74 KEMA 07 ATEX           • from CSA and UL         UL 1604 and UL 2270-16 (Hazardous Location), CSA C22 2 Ao. 213.M1997, Class 1 / Zone 2 / Group II C/ T4           • cettricate of suitability         • CCC / for hazardous zone according to GB standard / as marking           • for of hazardous zone according to GB standard / as marking         Yes           • Ka All CT4 Ge         Ex An IIC T4 Ge           • entitiest of suitability         EN 61000-6-2, EN 61000-6-4           • CC / for hazardous zone according to GB standard / as marking         Yes           • And IC T4 Ge         Ex An IIC T4 Ge           • entitiest of suitability         EN 61000-6-2, EN 61000-6-4           • CC / for hazardous zone according to BB standard / as marking         Yes           • entitiest of suitability         EN 61000-6-2, EN 61000-6-4           • Note Days opplication in accordinace with EN 50155         Yes           • entitiest of suitability         Yes           • entitiest of suitability         Yes           • is orean Register of Shipping (KRS)         Yes           • to web page: selection and TA Selection Tool         http://www.siemens.com/bitaselection.idod           • to web page: selection and Download Center         http://www.siemens.com/bitaselection.idod           • to web page: selection association		Yes
0143X       0143X       certificate of suitability     UL 1604 and UL 2279-16 (Hazardous Location), CSA C22 2 No. 213 M1997, Class 1 / Division 2 / Group A, B, C, D / TA, Class 1 / Zone 2 / Group IIC / TA       certificate of suitability     EX AN UL 279-16 (Hazardous zone according to CB standard / sa marking       certificate of suitability     EX AN UC 279-16 (Hazardous zone according to CB standard / sa marking       certificate of suitability     EX AN UC 279-16 (Hazardous zone according to CB standard / sa marking       certificate of suitability     EX AN UC 279-16 (Hazardous zone according to CB standard / sa marking       certificate of suitability     EX AN UC 279-16 (Hazardous zone according with EN 50155       e. C approval     Yes       e. Candards, specifications approvals / marking classification     Yes       e. Andards, specifications approvals / marking classification     Yes       e. Web page: selection in all TA Selection Tool     Http://www.siemens.com/sinatio.red       e. website: Industry Online Support     Http://www.siemens.com/sinatio.red       e. website: Industry Online Support     Http://www.siemens.com/sinatio/sinatis/infocenter <t< td=""><td></td><td></td></t<>		
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e.CCC / for hazardous zone according to GB standard / as making         Ex n / IIC T4 Gc           endards, specifications, approvals / other         EN 1000-6-2, EN 61000-6-4           certificate of suitability         EN 81000-6-2, EN 61000-6-4           - CTick         Yes           - Calce         Ntde/Nows stemes containselecton-lool           - Davestile:         Integrational           - One wastile:         Industry offenerals.com           - One wastile:         Industry offenerals.com           - Davebstile:         Industry offenerals.com	-	
marking           standards, specifications, approvals / other           certificate of suitability         EN 61000-6-2, EN 61000-6-4           • C-Tick         Yes           • Calway application in accordance with EN 50155         Yes           • calway application in accordance with EN 50155         Yes           • calway application in accordance with EN 50121-4         Yes           • the protection in accordance with EN 50121-4         Yes           • the protection in accordance with EN 50121-4         Yes           • alway application association         • Westation association           • French marine classification association         • Westation association           • French marine classification society (BV)         Yes           • Korean Register of Shipping (KRS)         Yes           Internet link         • Ittr://www.siemens.com/simatic.net           • to website: industry Wall         • Ittr://www.siemens.com           • to website: industry Wall         • Ittr://www.siemens.com           • to website: industry Vall         • Ittr://www.siemens.com/simatic.net           • to website: industry Vall         • Ittr://www.siemens.com/simatic.net           • to website: industry Vall         • Ittr://www.siemens.com/simatic.net           • to website: industry Vall         • Ittr://www.siemens.com/sintret.net <tr< td=""><td>C C</td><td></td></tr<>	C C	
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• KC approval       Yes         • railway application in accordance with EN 50151       Yes         • railway application in accordance with EN 501214       Yes         • standards, specifications, approvals / marine classification       Yes         • Andre classification association       Yes         • Korean Register of Shipping (KRS)       Yes         • Korean Register of Shipping (KRS)       Yes         • New bage: selection aid TIA Selection Tool       http://www.siemens.com/sia-selection-tool         • to website: Industrial communication       http://www.siemens.com/simalic.reft         • to website: Industrial communication       http://www.siemens.com/simalic.reft         • to website: Industriy Mall       http://www.siemens.com/simalic.reft         • to website: Industry Online Support       http://www.siemens.com/simalic.reft         • to website: Industry Comine	-	
• railway application in accordance with EN 50151       Yes         • railway application in accordance with EN 50121-41       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • free protection in accordance with EN 45545-2       Yes         • for examples and the protection accord EN 45545-2       Yes         • for example and the protection accord EN 45545-2       Yes         • for example and the protection accord EN 45545-2       Yes         • to website: Industry Mall       http://www.siemens.com/industry.inforcenter         • to website: Industry Colline Support       http://www.siemens.com/industry.inforcenter         • to website: Industry Colline Support       http://www.siemens.com/industry.siemens.com         security information       Siemens provides products and solutions with industrial security functions that support the secure operation of pants, systems, machines and networks. In order the		
• railway application in accordance with EN 50121-4 fre protection in accordance with EN 45545-2 standards, specifications, acparovals / marine classification       Yes         • Intervent Marine classification society (BV)       Yes         • Korean Register of Shipping (KRS)       Yes         • Work Data Standards, specifications, accordance with EN 45045-2       Yes         • Korean Register of Shipping (KRS)       Yes         • Korean Register of Shipping (KRS)       Yes         • Oweb page: selection aid TA Selection Tool       http://www.siemens.com/lia-selection-lool         • to website: Industrial communication       http://www.siemens.com/liamatic-net         • to website: Industry Mall       http://www.siemens.com/liamatic-net         • to website: Industry Online Support       http://www.siemens.com/liamatic-net         • to website: Industry Information       support the secure operation of plants, systems, machines and networks. In or of to protect plants, systems, machines and networks. Such systems, machines and networks.		
• fire protection in accordance with EN 45545-2       Yes         standards, specifications, approvals / marine classification         Marine classification association         • French marine classification society (BV)       Yes         • Korean Register of Shipping (KRS)       Yes         Internet link       • to web page: selection aid TIA Selection Tool       • Ittp://www.siemens.com/lia-selection-tool         • to website: industrial communication       • Ittp://www.siemens.com/lia-selection-tool       • Ittp://www.siemens.com/lia-selection-tool         • to website: industry Mall       • Ittp://www.siemens.com/lia/selection       • Ittp://www.siemens.com/lia/selection         • to website: industry Mall       • Ittp://www.siemens.com/lia/selection       • Ittp://www.siemens.com/lia/selection         • to website: industry Mall       • Ittp://www.siemens.com/lia/selection       • Ittp://www.siemens.com/lia/selection         • to website: industry online Support       • Ittp://www.siemens.com/lia/selection       • Ittp://www.siemens.com/lia/selection         security Information       Siemens provides products and solutions with industrial security functions that support industry siemens.com/lia/selection - a do ontinuously maintain - a hoisic, state-of-the-art industrial security selection is necessary and only when appropriate security concept. Siemens products and solutions consulture on element of such a concept. U.setters, and results is support the secure operation of plants, systems, machines and networks. Such systems, machines and networks. Such		
standards, specifications, approvals / marine classification       Marine classification association     . <ul> <li>French marine classification society (BV)</li> <li>Korean Register of Shipping (KRS)</li> <li>Yes</li> </ul> <li>further information / internet link</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> <li>bite://www.siemens.com/idustry/infocenter</li> <li>thttp://www.siemens.com/idustry/infocenter</li> <li>thttp://www.siemens.com/idustry information</li> <li>security information</li> <li>security information</li> <li>security information</li> <li>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. Such systems, machines and network segmentation a ni indu</li>		
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