SIEMENS

Data sheet

6GK5408-8GR00-2AM2

Product type designation



SCALANCE XM408-8C

SCALANCE XM408-8C; MANAGED MODULAR IE SWITCH; LAYER 3 INTEGRATED; 8 X 10/100/1000 MBIT/S RJ45; 8 X 100/1000 MBIT/S SFP; CONTAINS 8 COMBO PORTS; USABLE 8 PORTS IN TOTAL; EXPANDABLE TO 24 PORTS ELEKTRICAL OR OPTICAL; MOUNTING DIN-/S7-PROFILE-RAIL; PROFINET-IO DEVICE; REDUNDANCY FUNCTIONS; OFFICE FEATURES (RSTP, VLAN, IGMP,...); C-PLUG IN SCOPE OF SUPPLY

Transmission rate		
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s	
Number of ports / maximum	24	
nterfaces / for communication / maximum configuration for modular devices		
Number of electrical ports / maximum	24	
Number of electrical ports / with PoE / maximum	16	
Number of optical ports / maximum	24	
Interfaces / for communication / integrated		
Number of electrical connections		
 for network components or terminal equipment 	8; RJ45 with securing collar	
Number of 10/100/1000 Mbit/s RJ45 ports /		
Integrated		
with securing collar	8	
Number of electrical connections		
• for SFP	8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver	
Number of combo ports / with RJ45 interface for optical plug-in transceiver	8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver	
Number of connectable extender modules	2	

Interfaces / for communication / pluggable / maxim	um
Number of 10/100/1000 Mbit/s RJ45 ports	
with securing collar	16
with securing collar / with PoE	16
Number of 100 Mbit/s LC ports	
• for multimode	24
• for single mode (LD)	24
• for single mode (LH+)	24
• for single mode (ELH200)	24
Number of 1000 Mbit/s LC ports	
• for multimode	24
• for single mode (LD)	24
• for single mode (LH)	24
• for single mode (LH+)	24
• for single mode (ELH)	24
Number of electrical connections	
• for SFP	24; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
Interfaces / others Number of electrical connections	
	1
• for operator console	
• for management purposes	1
• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	D 144 mark
• for operator console	RJ11 port
• for management purposes	RJ45 port
for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block
Number of extender expansion interfaces	2
design of the removable storage	
C-PLUG/KEY-PLUG	Yes
Product feature / hot-swappable interface modules	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
21 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

Type of voltage / of the supply voltage	DC
Supply voltage	
external	24 V
• external	19.2 28.8 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	F 15 A / 125 V
Consumed current / maximum	2 A
Power loss [W]	
• at DC / at 24 V	48 W
Supplied active power / of PSE / with PoE	
• per port / maximum	30 W
• total / maximum	360 W
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity	
 at 25 °C / without condensation / during 	95 %
operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Design	modular
Width	140 mm
Height	147 mm
Depth	125 mm
Net weight	1.15 kg
Mounting type	
• 19-inch installation	No
 35 mm DIN rail mounting 	Yes
wall mounting	No
● S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
Product properties, functions, components / gener	_
Cascading in cases of star topology	any (depending only on signal propagation time)
Product functions / management, configuration	
Product function	Von
• 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
Telegram length / for Ethernet / maximum	9216 byte
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• IGMP (snooping/querier)	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
Product functions / Diagnosis	
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 	Yes
VLAN - IP-based	Yes
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 / Routing	
Service / Routing / Note	IP routing integrated, IPv6 available soon
Product function	
Static IP routing	Yes
Static IP routing IPv6	No
dynamic IP routing	Yes
 dynamic IP routing IPv6 	No
Protocol / is supported	
• RIPv2	Yes
RIPnG for IPv6	No
OSPFv2	Yes
OSPFv3 for IPv6	No
• VRRP	Yes
• VRRP for IPv6	No
Product functions / Redundancy	
Product function	
Ring redundancy	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 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 STP 	Yes
 redundancy procedure RSTP 	Yes
 redundancy procedure MSTP 	Yes
Passive listening	Yes
Protocol / is supported	
• LACP	Yes

Product function • ACL - MAC-based • CACL - MAC-based • ACL - MAC-based • CACL - MAC-based • ACL - MAC-based • ACL - MAC-based • ACL - MAC-based • Broadcast/Multicast/Unicast Limiter • Product function • SICLOCK supported • SSH Product functions / Time Product function • SICLOCK support • NTP • SNTP Yes Standards, specifications, approvals Standard • for FM • for FM • for hazardous zone EN 60079-0: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 ISA 12.12.01-2012 (Hazardous Location), Class 1/ Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 • for emitted interference • for interference immunity • for emitted interference • for interference immunity EN 61000-6-2 Certificate of suitability • CErtificate of suitability • CErtificate of suitability • ACTICA • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • No • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Poski Register of Shipping (LRS) • Royal Institution of Naval Architects (RINA) MTBF / at 40°C 28 y	Product functions / Security	
	•	
	• ACL - MAC-based	Yes
	 ACL - port/MAC-based 	Yes
broadcast blocking Protocol / is supported SSH Product functions / Time Product function SICLOCK support Protocol / is supported NTP SNTP Protocol / is supported Pr	• IEEE 802.1x (radius)	Yes
Protocol / is supported SSH Product functions / Time Product function SICL OCK support Protocol / is supported NTP SINTP SINTP Protocol / is supported NTP SINTP SIANTP Protocol / is supported NTP SINTP SIANTP Protocol / is supported NTP SIANTP SIANTP Protocol / is supported NTP Yes SIANTP Protocol / is supported NTP SIANTP Protocol / is supported NTP Yes SIANTP Protocol / is supported Protocol / is supported No SIANTP Protocol / is supported Protocol	Broadcast/Multicast/Unicast Limiter	Yes
Product functions / Time Product function	broadcast blocking	Yes
Product functions / Time Product function • SICLOCK support Protocol / is supported • NTP • SNTP Standards, specifications, approvals Standard • for FM • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity • for interference immunity • for interference immunity • Certificate of suitability / CE marking Certificate of suitability • C-Tick • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • No • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA) • Royal Institution of Naval Architects (RINA)	Protocol / is supported	
Product function	• SSH	Yes
Product function	Product functions / Time	
● SICLOCK support Yes Protocol / is supported Yes ● NTP Yes ● SNTP 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: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X ● for safety / from CSA and UL UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 ● for hazardous zone / from CSA and UL ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 ● for emitted interference EN 61000-6-4 (Class A) ● for interference immunity EN 61000-6-2 Eortificate of suitability / CE marking Yes Certificate of suitability / Emarking Yes Marine classification association EN 61000-6-2, EN 61000-6-4 ● KC approval Yes Marine classification association No ● Bureau Veritas (BV) No ● Det Norske Veritas (DNV) Yes ● Germanische Lloyd (GL) No ● Lloyds Register of Shipping (
Protocol / is supported • NTP • SNTP Yes Standards, specifications, approvals Standard • for FM • for hazardous zone • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for emitted interference • for interference inmunity • for interference immunity • Certificate of suitability / CE marking Certificate of suitability / CE marking Certificate of suitability • C-Tick • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • No • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)		Yes
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Standard • for FM • for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference immunity • for interference immunity • Certificate of suitability / CE marking Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Cermanische Lloyd (GL) • Royal Institution of Naval Architects (RINA) Find Standard FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC T4 GC, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 ISA 12.12.01-2012 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 FN 61000-6-4 (Class A) EN 61000-6-4 (Class A) EN 61000-6-2 Certificate of suitability / CE marking FN 61000-6-2, EN 61000-6-4 Yes Marine classification association • American Bureau of Shipping Europe Ltd. No No Pot Norske Veritas (BV) Polski Rejestr Statkow (PRS) Polski Rejestr Statkow (PRS) Polski Rejestr Statkow (PRS) Polski Institution of Naval Architects (RINA)		Yes
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: 2009, EN60079-15: 2010, II 3 G Ex nA IIC T4 Gc, KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for emitted interference • for interference immunity EN 61000-6-4 (Class A) • C-Trick • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)		
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KEMA 07 ATEX 0145 X, IECEx DEK 14.0025X • for safety / from CSA and UL • for hazardous zone / from CSA and UL • for hazardous zone / from CSA and UL • for emitted interference • for interference immunity • for interference immunity Certificate of suitability / CE marking Certificate of suitability • C-Tick • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	for hazardous zone	
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Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 • for emitted interference • for interference immunity EN 61000-6-4 (Class A) EN 61000-6-2 Certificate of suitability / CE marking Certificate of suitability • C-Tick • KC approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	• for safety / from CSA and UL	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
● for interference immunity Certificate of suitability / CE marking Yes Certificate of suitability ● C-Tick ● KC approval Marine classification association ● American Bureau of Shipping Europe Ltd. (ABS) ● Bureau Veritas (BV) ● Det Norske Veritas (DNV) ● Det Norske Veritas (DNV) ● Germanische Lloyd (GL) ● Lloyds Register of Shipping (LRS) ● Nippon Kaiji Kyokai (NK) ● Polski Rejestr Statkow (PRS) ● Royal Institution of Naval Architects (RINA)	• for hazardous zone / from CSA and UL	
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Certificate of suitability C-Tick KC approval Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) No No Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA)	• for interference immunity	EN 61000-6-2
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Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	• C-Tick	Yes
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(ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	Marine classification association	
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 Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) Yes Yes	 Lloyds Register of Shipping (LRS) 	Yes
 Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA) Yes Yes	Nippon Kaiji Kyokai (NK)	Yes
Royal Institution of Naval Architects (RINA) Yes		Yes
		Yes
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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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03/09/2017