SIEMENS

Data sheet



SCALANCE XM408-4C; managed modular IE switch; 8x 10/100/1000 Mbit/s RJ45; 4x 100/1000 Mbps ST-/SC- pluggable as combo ports; in total 8 ports can be used; expandable to 24 ports electrical or optical; assembly: DIN rail/S7 mounting rail, PROFINET IO device; redundancy functions; office features (RSTP, VLAN, IGMP,..); C-PLUG in scope of supply; layer 3 integrated.

product type designation	SCALANCE XM408-4C
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
number of ports / maximum	24
interfaces / for communication / maximum configuration for mo	odular devices
number of electrical ports / maximum	24
number of electrical ports / with PoE / maximum	16
number of optical ports / maximum	20
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 SCP/STP transceiver	4; 100 Mbit/s or 1000 Mbit/s
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 100 Mbit/s ST plug-in transceiver, 1000 Mbit/s SC plug-in transceiver
number of connectable extender modules	2
interfaces / for communication / plug-in	
number of 10/100/1000 Mbit/s RJ45 ports	
with securing collar	16
with securing collar / with PoE	16
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	4
• for single mode (LD)	4
number of 1000 Mbit/s SC ports	
• for multimode	4
• for single mode (LD)	4
number of 100 Mbit/s LC ports	
• for multimode	16
for single mode (LD)	16
• for single mode (LH+)	16
• for single mode (ELH200)	16
number of 1000 Mbit/s LC ports	
• for multimode	16
• for single mode (LD)	16
• for single mode (LH)	16
• for single mode (LH+)	16
• for single mode (ELH)	16
number of electrical connections	

for OFD	40, 400 MbW, 4000 MbW, 055
• for SCP/STP transactives	16; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
• for SCP/STP transceiver	4; 100 Mbit/s or 1000 Mbit/s
interfaces / other	
number of electrical connections	1
for operator console for management purposes	1
• for management purposes	1
for signaling contactfor power supply	1
type of electrical connection	1
for operator console	RJ11
• for management purposes	RJ45
• for signaling contact	2-pole terminal block
number of extender expansion interfaces	2
design of the removable storage	-
• C-PLUG	Yes
• 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
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
supplied active power / of PSE / with PoE	
• per port / maximum	30 W
• total / maximum	360 W
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	48 W
supply voltage / 1 / rated value	19.2 28.8 V
consumed current / 1 / maximum	2 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
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 operation /	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	modular
width	140 mm
height	147 mm
depth	125 mm
net weight	1.15 kg
fastening method	Ven
35 mm top hat DIN rail mounting S7 200 rail mounting	Yes
S7-300 rail mounting S7-1500 rail mounting	Yes
S7-1500 rail mounting Product features, product functions, product components / gaps.	Yes
product features, product functions, product components / gene	
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
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 • TRAPP via ornal • Configuration with STEP 7 • PRADON • port mirroring • CoS • PROFINET Configuration • PROFINET CONFIGURAT		
- emorganization with STEP 7 - RAKON - port nitrotring - yes - unutport minoring - yes - cos - cos - PROFINET To diagnosis - PROFINET TO American -	 MIB support 	Yes
Port mirroring Ves PROFINET IO diagnosis PROFINET Collagnosis Protect Incomment of the Collegnosis Collegnosis Collegnosis Collegnosis Collegnosis Protect Ves Protect Ve		
- multiport narroring		
COS Yes		
PROFINET IO diagnosis		
PROCINCT conformity class product function / switch-marged Product function Product	• CoS	Yes
product function / switch managed telegram length for Ethemet / maximum protocol / is apported * Teinet * HTTP * Yes * HTTP * HTTP * Yes * HTTP * Yes * FTP * SBOOTP * Yes * BOOTP * Yes * SMRP * Yes * SMRP Y * Y	PROFINET IO diagnosis	
telegam length / for Ethemet / maximum protocol / is supported * Tolinet * Tolinet * Tolinet * HTTP * Yes * HTTP * Yes * HTTP * Yes * FTP * FTP * GAMRP * BOOTP * CAMRP * COCP * LLDP * LEMP-RAUIP * SAMM * VI * SAMM * SA	PROFINET conformity class	В
protocol is supported • Teinet • Teinet • HTTP • HTTP • HTTP • HTTP • FTP • FTP • BOOTP • GMRP • BOOTP • GMRP • COP • COP	product function / switch-managed	Yes
Telnet	telegram length / for Ethernet / maximum	9216 byte
HTTP HTTPS	protocol / is supported	
HTTPS	Telnet	Yes
■ TFTP ■ FTP ■ FT	• HTTP	Yes
• FTP	• HTTPS	Yes
	• TFTP	Yes
	• FTP	Yes
DCP	• BOOTP	Yes
EitherNet/IP Eithe	• GMRP	Yes
■ EtherNet/IP ■ SNMP v2 ■ SNMP v2 ■ SNMP v3 ■ Yes ■ SNMP v3 ■ Yes ■ IGMP (ancoping/querier) IGMP (ancoping/querier) Yes IGMP (ancoping/querier) Identification & maintenance function	• DCP	Yes
	• LLDP	Yes
	EtherNet/IP	Yes
SNMP v3	• SNMP v1	Yes
identification & maintenance function iBM0 - device-specific information Yes	• SNMP v2	Yes
identification & maintenance function I&M0 - device-specific information Yes	• SNMP v3	Yes
• I&MO - device-specific information • I&M1 - higher level designation/location designation product functions / diagnostics product function • port diagnostics • statistics packet Size • statistics packet type • error statistics • SysLog • SysLog • VLAN product functions / VLAN product functions / VLAN product function • VLAN - port based • VLAN - port based • VLAN - protocol-based • VLAN - protocol-based • VLAN dynamic number of VLANs- aymamic / maximum 255 protocol / is supported / GVRP product function • OHCP client • DHCP Option 68 • DHCP Option 67 • DHCP Option 67 • Static IP routing • static IP routing IPV6 • dynamic IP routing IPV6	 IGMP (snooping/querier) 	Yes
• I&M1 - higher level designation/location designation product functions / diagnostics product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog product functions / VLAN product functions / VLAN product function • VLAN - port based • VLAN - port based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN - Mynamic number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product functions / DHCP product functions / DHCP product function 82 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 yes estatic IP routing I note product function • static IP routing IPV6 • dynamic IP routing IPV6 • Yes protocol / is supported	identification & maintenance function	
product function / diagnostics product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • Product functions / VLAN product functions / VLAN product functions / VLAN product function Yes • VLAN - port based Yes • VLAN - protocol-based Yes • VLAN - Probased Yes • VLAN - Probased Yes • VLAN dynamic Yes number of VLANs / maximum 255 number of VLANs / maximum 255 number of VLANs / Maximum 255 product functions / DHCP product functions / DHCP product functions / DHCP product function Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / routing service / routing / note IP routing integrated product function • static IP routing Yes • dynamic IP routing Yes • dynamic IP routing Yes • dynamic IP routing Yes protocol / is supported	 I&M0 - device-specific information 	Yes
product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog • SysLog • Yes • SysLog • VLAN product functions / VLAN product function • VLAN - prot based • VLAN - grot based • VLAN - prot based • VES • DHCP Option 6 / WES • DHCP Option 82 • YES • DHCP Option 67 • YES • Static IP routing / note • Static IP routing Note • Static IP routing YES • Option IP routing YES • Opt	 I&M1 - higher level designation/location designation 	Yes
port diagnostics statistics Packet Size statistics packet type error statistics Syst.og Yes Syst.og Yes roduct functions / VLAN product function VLAN - port based Yes VLAN - protocol-based Yes VLAN - Protocol-based Yes VLAN - IP-based Yes VLAN dynamic number of VLANs / maximum Z55 number of VLANs / maximum Z55 number of VLANs / Maximum Yes product functions / Ver Product functions / Ver Product functions / Ver Product functions / DHCP product functions / DHCP product function DHCP Option 82 Yes DHCP Option 66 Yes DHCP Option 66 Yes Product functions / routing Service / routing / note Product function static IP routing Yes dynamic IP routing Yes dynamic IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 Yes Protocol / is supported	product functions / diagnostics	
• statistics Packet Size Yes • statistics packet type Yes • error statistics • SysLog Yes product functions / VLAN product function • VLAN - prot based Yes • VLAN - prot based Yes • VLAN - protocol-based Yes • DHCP Option of Other Yes • DHCP Option 82 Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / routing • service / routing / note product function • static IP routing Inote • static IP routing IPv6 • dynamic IP routing IPv6 • Yes • dynamic IP routing IPv6 • Yes • protocol / is supported	product function	
statistics packet type error statistics SysLog Yes SysLog Yes product functions / VLAN product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VES • VES • VLAN - IP-based • VES • VES • VES • VES • VES • VES • DHCP Option 67 • VES • DHCP Option 82 • VES • DHCP Option 67 • VES • Opting integrated product function • static IP routing • static IP routing IPV6 • dynamic IP routing IPV6 • dynamic IP routing IPV6 • dynamic IP routing IPV6 • Opting IPV6 • Opti	 port diagnostics 	Yes
error statistics SysLog yes product functions / VLAN product function	statistics Packet Size	Yes
SysLog Product functions / VLAN Product function VLAN - port based VLAN - protocol-based Ves VLAN - protocol-based Yes VLAN opassed Yes VLAN dynamic Passed Yes VLAN dynamic 1 yes Product function / Yes Product functions / DHCP Product functions / DHCP Product function DHCP option 82 DHCP Option 66 DHCP Option 67 Yes Product functions / routing Service / routing / note Product function static IP routing IPv6 dynamic IP routing IPv6 fyes	statistics packet type	Yes
product function VLAN - port based Ves VLAN - protocol-based Yes VLAN - Protocol-based Yes VLAN - Protocol-based Yes VLAN - Protocol-based Yes VLAN - IP-based Yes VLAN dynamic Pes Number of VLANs / maximum 255 Number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP Yes Product functions / DHCP Product function DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing Service / routing / note Product function • static IP routing • static IP routing Ves • dynamic IP routing Ves • dynamic IP routing IPv6 Yes Protocol / is supported	error statistics	Yes
product function VLAN - port based Ves VLAN - protocol-based Yes VLAN - Protocol-based Yes VLAN - Protocol-based Yes VLAN - Protocol-based Yes VLAN - IP-based Yes VLAN dynamic Pes Number of VLANs / maximum 255 Number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP Yes Product functions / DHCP Product function DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing Service / routing / note Product function • static IP routing • static IP routing Ves • dynamic IP routing Ves • dynamic IP routing IPv6 Yes Protocol / is supported	 SysLog 	Yes
	product function	
VLAN - IP-based 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 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function • static IP routing IPv6 dynamic IP routing IPv6 yes protocol / is supported Yes yes dynamic IP routing IPv6 Yes Protocol / is supported		Yes
VLAN - IP-based 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 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function • static IP routing IPv6 dynamic IP routing IPv6 yes protocol / is supported Yes yes dynamic IP routing IPv6 Yes Protocol / is supported	VLAN - protocol-based	Yes
VLAN dynamic number of VLANs / maximum 255 number of VLANs - dynamic / maximum protocol / is supported / GVRP Product functions / DHCP product function DHCP client DHCP Option 82 DHCP Option 66 Pes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 protocol / is supported		
number of VLANs / maximum number of VLANs - dynamic / maximum product of VLANs - dynamic / maximum product functions / DHCP product function DHCP client DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function static IP routing static IP routing IPv6 dynamic IP routing IPv6 dynamic IP routing IPv6 yes protocol / is supported		
number of VLANs - dynamic / maximum protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Product functions / routing service / routing / note product function • static IP routing • static IP routing • dynamic IP routing IPv6 • dynamic IP routing IPv6 protocol / is supported	·	
protocol / is supported / GVRP product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Product functions / routing service / routing / note product function • static IP routing • static IP routing • dynamic IP routing IPv6 • dynamic IP routing IPv6 protocol / is supported		
product functions / DHCP product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Yes • DHCP Option 67 Yes product functions / routing service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing protocol / is supported		
product function • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 Yes • DHCP Option 67 Yes product functions / routing service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing IPv6 protocol / is supported Yes Yes Yes Yes Yes Yes Yes Y		
DHCP client DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes Product functions / routing service / routing / note product function static IP routing		
DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Yes product functions / routing service / routing / note product function static IP routing Yes static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 yes protocol / is supported Yes Yes Yes Yes Yes Yes Yes		Yes
DHCP Option 66 Yes DHCP Option 67 Yes product functions / routing service / routing / note product function static IP routing Yes static IP routing IPv6 dynamic IP routing yes dynamic IP routing IPv6 protocol / is supported Yes Yes Yes Yes Yes Yes Yes		
DHCP Option 67 Yes product functions / routing service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 protocol / is supported Yes Yes Yes Yes Yes Yes		
product functions / routing service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 protocol / is supported IP routing integrated Yes Yes Yes Yes		
service / routing / note product function • static IP routing • static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 protocol / is supported IP routing integrated Yes Yes Yes Yes		
product function • static IP routing • static IP routing IPv6 • dynamic IP routing • dynamic IP routing IPv6 Yes • dynamic IP routing IPv6 Yes protocol / is supported		IP routing integrated
 static IP routing static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 yes dynamic IP routing IPv6 protocol / is supported 		ii routing integrated
 static IP routing IPv6 dynamic IP routing dynamic IP routing IPv6 protocol / is supported Yes Yes	•	Voc
 dynamic IP routing dynamic IP routing IPv6 protocol / is supported Yes Protocol / is supported	-	
dynamic IP routing IPv6 Protocol / is supported Yes		
protocol / is supported		
		168
● KITVZ		
		Voc

• RIPnG for IPv6	Yes
• OSPFv2	Yes
OSPFv3 for IPv6	Yes
• VRRP	Yes
VRRP for IPv6	Yes
product functions / redundancy	
product function	V
 of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes
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
 Media Redundancy Protocol Interconnection (MRP-I) 	Yes
 of the PROFINET IO device / is supported / H-Sync forwarding 	Yes
redundancy procedure STP	Yes
redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
redundancy procedure MSTP	Yes
passive listening	Yes
protocol / is supported	
• 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
• SSL	Yes
product functions / time	
product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	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 safety / from CSA and UL	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
MTBF	28 a
reference code	
according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
, ,	

certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standards, specifications, approvals / hazardous environments	165, 2011/00/25
standard / 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
• 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
certificate of suitability	
 CCC / for hazardous zone according to GB standard 	Yes
 CCC / for hazardous zone according to GB standard / as marking 	Ex nA IIC T4 Gc
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
• C-Tick	Yes
KC approval	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	Yes
further information / internet links	
internet link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	http://www.siemens.com/simatic-net
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	http://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 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)

8/11/2023 last modified: