



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 modular 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	8; RJ45 with securing collar
<ul style="list-style-type: none"> • for network components or terminal equipment 	
number of 10/100/1000 Mbit/s RJ45 ports / integrated	8
<ul style="list-style-type: none"> • with securing collar 	
number of electrical connections	4; 100 Mbit/s or 1000 Mbit/s
<ul style="list-style-type: none"> • for SCP/STP transceiver 	
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	16
<ul style="list-style-type: none"> • with securing collar 	
<ul style="list-style-type: none"> • with securing collar / with PoE 	16
number of 100 Mbit/s ST(BFOC) ports	4
<ul style="list-style-type: none"> • for multimode 	
<ul style="list-style-type: none"> • for single mode (LD) 	4
number of 1000 Mbit/s SC ports	4
<ul style="list-style-type: none"> • for multimode 	
<ul style="list-style-type: none"> • for single mode (LD) 	4
number of 100 Mbit/s LC ports	16
<ul style="list-style-type: none"> • for multimode 	
<ul style="list-style-type: none"> • for single mode (LD) 	16
<ul style="list-style-type: none"> • for single mode (LH+) 	16
<ul style="list-style-type: none"> • for single mode (ELH200) 	16
number of 1000 Mbit/s LC ports	16
<ul style="list-style-type: none"> • for multimode 	
<ul style="list-style-type: none"> • for single mode (LD) 	16
<ul style="list-style-type: none"> • for single mode (LH) 	16
<ul style="list-style-type: none"> • for single mode (LH+) 	16
<ul style="list-style-type: none"> • for single mode (ELH) 	16
number of electrical connections	16; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
<ul style="list-style-type: none"> • for SFP 	

- for SCP/STP transceiver

4; 100 Mbit/s or 1000 Mbit/s

interfaces / other

number of electrical connections	
<ul style="list-style-type: none"> • for operator console • for management purposes • for signaling contact • for power supply 	1 1 1 1
type of electrical connection	
<ul style="list-style-type: none"> • for operator console • for management purposes • for signaling contact 	RJ11 RJ45 2-pole terminal block
number of extender expansion interfaces	2
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG • C-PLUG/KEY-PLUG 	Yes Yes
product feature / hot-swappable interface modules	Yes

signal inputs/outputs

operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / rated value 	24 V
operational current / of the signaling contacts	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • per port / maximum • total / maximum 	30 W 360 W
type of voltage / 1 / of the supply voltage	DC
<ul style="list-style-type: none"> • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input 	24 V 48 W 19.2 ... 28.8 V 2 A 4-pole terminal block Yes

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-40 ... +70 °C -40 ... +85 °C -40 ... +85 °C
relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
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	
<ul style="list-style-type: none"> • 35 mm top hat DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting 	Yes Yes Yes

product features, product functions, product components / general

cascading in the case of a redundant ring / at reconfiguration time of $\sim 0.3\text{ s}$	50
cascading in cases of star topology	any (depending only on signal propagation time)

product functions / management, configuration, engineering

product function	
<ul style="list-style-type: none"> • CLI • web-based management • MIB support • TRAPs via email 	Yes Yes Yes Yes

• configuration with STEP 7	Yes
• RMON	Yes
• port mirroring	Yes
• multipoint mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
PROFINET conformity class	B
product function / switch-managed	Yes
telegram length / for Ethernet / maximum protocol / is supported	9216 byte
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	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

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	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
product function	
• static IP routing	Yes
• static IP routing IPv6	Yes
• dynamic IP routing	Yes
• dynamic IP routing IPv6	Yes
protocol / is supported	
• RIPv2	Yes
• RIPnG for IPv6	Yes
• OSPFv2	Yes
• OSPFv3 for IPv6	Yes
• VRRP	Yes
• VRRP for IPv6	Yes

product functions / redundancy

product function	
<ul style="list-style-type: none"> of the PROFINET IO device / is supported / PROFINET system redundancy 	Yes
<ul style="list-style-type: none"> ring redundancy 	Yes
<ul style="list-style-type: none"> High Speed Redundancy Protocol (HRP) 	Yes
<ul style="list-style-type: none"> high speed redundancy protocol (HRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> high speed redundancy protocol (HRP) with standby redundancy 	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul style="list-style-type: none"> media redundancy protocol (MRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> Media Redundancy Protocol Interconnection (MRP-I) 	Yes
<ul style="list-style-type: none"> of the PROFINET IO device / is supported / H-Sync forwarding 	Yes
<ul style="list-style-type: none"> redundancy procedure STP 	Yes
<ul style="list-style-type: none"> redundancy procedure RSTP 	Yes
<ul style="list-style-type: none"> redundancy procedure RSTP+ 	Yes
<ul style="list-style-type: none"> redundancy procedure MSTP 	Yes
<ul style="list-style-type: none"> passive listening 	Yes
protocol / is supported	
<ul style="list-style-type: none"> LACP 	Yes

product functions / security

product function	
<ul style="list-style-type: none"> ACL - MAC-based 	Yes
<ul style="list-style-type: none"> ACL - port/MAC-based 	Yes
<ul style="list-style-type: none"> IEEE 802.1x (radius) 	Yes
<ul style="list-style-type: none"> broadcast/multicast/unicast limiter 	Yes
<ul style="list-style-type: none"> broadcast blocking 	Yes
protocol / is supported	
<ul style="list-style-type: none"> SSH 	Yes
<ul style="list-style-type: none"> SSL 	Yes

product functions / time

product function	
<ul style="list-style-type: none"> SICLOCK support 	Yes
<ul style="list-style-type: none"> NTP-client 	Yes
<ul style="list-style-type: none"> SNTP client 	Yes
protocol / is supported	
<ul style="list-style-type: none"> NTP 	Yes
<ul style="list-style-type: none"> SNTP 	Yes

system modification during operation

product function / configuration in RUN via CiR/H-CiR	Yes
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standards, specifications, approvals

standard	
<ul style="list-style-type: none"> for FM 	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
<ul style="list-style-type: none"> for safety / from CSA and UL 	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
<ul style="list-style-type: none"> for emitted interference 	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> for interference immunity 	EN 61000-6-2
MTBF	28 a
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 	KF
<ul style="list-style-type: none"> 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

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
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard 	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none"> • C-Tick 	Yes
<ul style="list-style-type: none"> • KC approval 	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> • French marine classification society (BV) 	Yes
<ul style="list-style-type: none"> • DNV GL 	Yes
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	Yes
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	Yes
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	Yes
<ul style="list-style-type: none"> • Royal Institution of Naval Architects (RINA) 	Yes
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • 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)

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