## **SIEMENS**

## **Data sheet**



SCALANCE XM408-4C; managed modular IE switch; 8x 10/100/1000 Mbit/s RJ45; 4x 100/1000 Mbit/s 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 delivery; Layer 3 with key plug available

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	or 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	
<ul> <li>for network components or terminal equipment</li> </ul>	8; RJ45 with securing collar
number of 10/100/1000 Mbit/s RJ45 ports / integrated	
<ul><li>with securing collar</li></ul>	8
number of electrical connections	
<ul> <li>for SCP/STP transceiver</li> </ul>	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	
<ul> <li>with securing collar</li> </ul>	16
with securing collar / with PoE	16
number of 100 Mbit/s ST(BFOC) ports	
<ul> <li>for multimode</li> </ul>	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	
<ul> <li>for multimode</li> </ul>	16
<ul><li>for single mode (LD)</li></ul>	16
<ul><li>for single mode (LH+)</li></ul>	16
• for single mode (ELH200)	16
number of 1000 Mbit/s LC ports	
<ul> <li>for multimode</li> </ul>	16
<ul><li>for single mode (LD)</li></ul>	16
<ul><li>for single mode (LH)</li></ul>	16
<ul><li>for single mode (LH+)</li></ul>	16
<ul><li>for single mode (ELH)</li></ul>	16

number of electrical connections	
• for SFP	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	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for management purposes</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
for power supply	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for management purposes</li> </ul>	RJ45
<ul> <li>for signaling contact</li> </ul>	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
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
supplied active power / of PSE / with PoE	
<ul><li>per port / maximum</li></ul>	30 W
• total / maximum	360 W
type of voltage / 1 / of the supply voltage	DC
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	48 W
<ul><li>supply voltage / 1 / rated value</li></ul>	19.2 28.8 V
<ul><li>consumed current / 1 / maximum</li></ul>	2 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 +85 °C
during transport	-40 +85 °C
relative humidity	
• at 25 °C / without condensation / during operation /	95 %
maximum	IDOS
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	N.
• 19-inch installation	No
35 mm top hat DIN rail mounting	Yes
wall mounting	No
• S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components	
cascading in cases of star topology	any (depending only on signal propagation time)

Decorpt   Coli	product functions / management, configuration, engineeri	ng
OCI		
• MB support • MB support • MB support • MB support • CRAPs via email • configuration with STEP 7 • RRACN • port mirroring • PROFINET ID diagnosis • PROFINET ID diagnosis • PROFINET ID diagnosis • PROFINET morting viess • PROFINET morting vies • PROFINET morting viess • PROFINET morting vies • PROFINET morting vies • PROFINET morting vies • PROFINET morting vies • PRO	•	Yes
MIB support		
TRAPs via email   Yes		
e configuration with STEP 7 RMON Port mirroring Port with provided in the product function of the prod		
RMON  pot mirroring  pot mirroring  result p		
e port mirroring         Yes           e CoS         Yes           e CoS         Yes           PROFINET IO diagnosis         Yes           PROFINET conformity class         B           product function / switch-managed         Yes           telegran length for Ethernet / maximum         9216 byte           protocol / is supported         Yes           • Telnet         Yes           • HTTP         Yes           • HTTP         Yes           • TETP         Yes           • BOOTP         Yes           • BOOTP         Yes           • BOOTP         Yes           • LLDP         Yes           • SNMP v1         Yes           • SNMP v2         Yes           • SNMP v3         Yes           • IRM - higher level designation/location designation         Yes           product functions / diagnostics         Yes           • statistics packet type         Yes           • statistics packet type         Yes           • statistics packet type         Yes           • vLAN - protocol-based         Yes           • VLAN - protocol-based         Yes           • VLAN - protocol-based         Yes		
e multiport mirroring COS COS PROFINET IO diagnosis PROFINET conformity class PROFINET CONFORMITY PR		
• PROFINET IO diagnosis  • PROFINET To ordormity class  B product function / switch-managed  • Pes  telegram length / for Ethemet / maximum  protocol / is supported  • Telnet		Yes
PROFINET Ior diagnosis		Yes
PROFINET conformity class   B   product function / switch-managed   Yes   telegram length / for Ethernet / maximum   9216 byte		Yes
telegram length / for Ethernet / maximum  protecol / is supported  • Telnet  • HITTP  • HITTP  • HITTP  • HITTP  • HITTP  • BOOTP  • SOMRP  • DCP  • LLDP  • SNMP v1  • SNMP v2  • SNMP v2  • SNMP v3  • IGMP (snooping/querier)  • Identification & maintenance function  • IAM1 – higher level designation/location designation  product functions / diagnostics  • statistics packet type  • error statistics  • Systog  roduct functions / VLAN  product function / VLAN  product functions / VLAN / Poptions 6  • VLAN - dynamic / maximum  number of VLANs - dynamic / maximum  255  protect of VLAN - dynamic / maximum  256  product functions / DHOP  product functions / DHOP  product functions / DHOP  product functions / Onting  service / routing / note  product functions / routing  service / routing / note  product functions / routing  service / routing / note  product functions / routing  service / routing / note  product functions / routing  service / routing / note  product functions / routing  service / routing / note  product functions / vuling / note  product functions / vuling / note		В
Protect   Supported     • Teinet   Yes	<u> </u>	Yes
Tellnet		9216 byte
HTTP HTTPS HTTP HTTPS FTEP FTEP BOOTP BOO	protocol / is supported	
• HTTPS • TFTP • FTP • FTP • BOOTP • CMRP • DCP • CMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • IGMO (evice-specific information • ISMO - device-specific information • ISMO - device-specific information • ISMO - Higher level designation/location designation	<ul><li>Telnet</li></ul>	Yes
• TFTP  • FTP  • FTP  • BOOTP  • GMRP  • GMRP  • DCP  • LLDP  • SNMP v1  • SNMP v1  • SNMP v2  • SNMP v3  • (GMP (snooping/querier)  • (SM1 – higher level designation/location designation  • (SM1 – higher level designation/location designation)  • (SM2 – yes  • statistics Packet Size  • statistics Packet Size  • statistics Packet Size  • statistics Packet Size  • statistics Packet (size  • statistics Packet (size  • yes  • yes  • (yes  • (yes)	• HTTP	Yes
● FTP  ● BOOTP  ● GMRP  ● CMRP  ● CMRP  ● DCP  ● LLDP  ● SNMP v1  ● SNMP v2  ● SNMP v2  ● SNMP v3  ● (GMRP)  (GMRP)  (SMRP v3  ● SNMP v3  ● SNMP v3  ● (GMRP)	• HTTPS	Yes
● BOOTP ● OMRP ● OMRP ● CP ● LLDP ● LLDP ● Yes ● SNMP v1 ● SNMP v1 ● SNMP v2 ● SNMP v3 ● IGMP (snooping/querier)  identification & maintenance function ● I&M0 - device-specific information ● I&M1 - higher level designation/location designation  product functions / diagnostics  product function ● port diagnostics Yes ● statistics Packet Size ● SysLog  product functions / VEAN  product function / VEAN - protocol-based ● VEAN - IP-based ● VEA	• TFTP	Yes
GMRP OCP OCP Yes LLDP SNMP v1 SNMP v1 SNMP v2 SNMP v3 Fes SNMP v3	• FTP	Yes
DCP LLDP Yes LLDP Yes SMMP V1 SMMP V2 Yes SMMP V3 GMP (snooping/querier) Yes identification & maintenance function I&MO - device-specific information I&MO - device-specific information I&MO - device-specific information Yes Product functions / diagnostics  product function  optic diagnostics  product function  optic diagnostics  resistatistics packet Size SysLog resistatistics packet type Hesperial SysLog Yes  orduct functions / VLAN  Product function  VLAN - port based VLAN - protocol-based Yes VLAN dynamic Number of VLANs - dynamic / maximum Zes  number of VLANs - dynamic / maximum Zes product functions  DHCP Client DHCP Client DHCP Option 66 DHCP Option 66 DHCP Option 67 Yes  product function  outling / note Product function  Product functions / Yes  DHCP Option 67 Yes  product functions / routing Service / routing / note Product function  outling / note  Product fu	• BOOTP	Yes
• LLDP • SMMP v1 • SMMP v1 • SMMP v2 • SMMP v3 • SMMP v3 • SMMP v3 • SMMP v3 • IGMP (snooping/querier)  identification & maintenance function • I&M0 - device-specific information • I&M0 - 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  product functions  • VLAN - port based • VLAN - port based • VLAN - protocol-based • VLAN - protocol-based • VLAN - protocol-based • VLAN - protocol-based • VLAN - fine-based • VLAN - f	• GMRP	Yes
• SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier)  identification & maintenance function • I&MO - device-specific information • I&MM - higher level designation/location designation  product functions / diagnostics  product function • port diagnostics  product function • statistics Packet Stze • statistics packet type • error statistics • Syslog  product functions / VLAN  product functions / VLAN  product functions / VLAN  product function • VLAN - prot based • VLAN - prot based • VLAN - protocol-based • VLAN - protocol-based • VLAN - synamic • VLAN - dynamic / maximum  product function / VLANs - dynamic / maximum  product functions / VLANs - dynamic / maximum  255  protocol / is supported / GVRP  product functions • DHCP Cpition 66 • DHCP Option 66 • DHCP Option 67  yes  product function • static IP routing • Static IP routing • Yes  Product function • Static IP routing • Static IP routing • Yes	• DCP	Yes
SNMP v2 SMMP v3 Fes SNMP v3 Fes SNMP v3 Fes IGMP (snooping/querier)  identification & maintenance function I&MO - device-specific information Festivations / disgnostics  product functions / disgnostics  product function  port diagnostics Festive yes Statistics Packet Size Statistics Packet Size Festive yes SysLog Froduct functions / VLAN  Froduct functions / VLAN  Froduct functions / VLAN  Froduct function / VLAN - port based VLAN - port based VLAN - protocol-based VLAN - IP-based VLAN - IP-based VLAN - Maximum Froduct function / VLANs / Fes Froduct function / VLANs / Fes Froduct function / Frouting Froduct function / Frouting / Fes Froduct function / Frouting / Frouting / Frouting / Fes Froduct function / Fosting / Frouting / Frouti	• LLDP	Yes
• SNMP v3 • IGMP (snooping/querier) Identification & maintenance function • I&M0 - device-specific information • I&M0 - device-specific information • I&M1 - higher level designation/location designation  product functions / diagnostics  product function • port diagnostics • statistics Packet Size • statistics Packet Size • statistics Packet Size • statistics packet type • error statistics • SysLog • Yes  product functions / VLAN  product functions / VLAN  product function / VLAN - port based • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN - dynamic number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 product functions / DHCP  product functions • DHCP Option 82 • DHCP Option 66 • DHCP Option 66 • DHCP Option 67  yes  product functions / routing service / routing / note  product function • static IP routing  Yes  IP routing in combination with KEY-PLUG XM-400  Product function • static IP routing  Yes	• SNMP v1	Yes
Identification & maintenance function  I&MO - device-specific information  I&MM - higher level designation/location designation  Product functions / diagnostics  product function  Port diagnostics  product function  Port diagnostics  I yes  I statistics Packet Size  I statistics Packet type  I en error statistics  I yes  I error statistics  I yes  I	• SNMP v2	Yes
identification & maintenance function  • I&M0 - device-specific information  • I&M1 - higher level designation/location designation  product functions / diagnostics  product function  • port diagnostics  • statistics Packet Size  • statistics Packet Size  • statistics packet type  • error statistics  • SysLog  product functions / VLAN  product functions  • VLAN - port based  • VLAN - protocol-based  • VLAN - protocol-based  • VLAN - IP-based  • VLAN dynamic  number of VLANs / maximum  number of VLANs / maximum  255  product functions / JGRP  product functions / DHCP  product function (PCP)	• SNMP v3	Yes
I I&M0 - device-specific information  I I&M1 - higher level designation/location designation  Product functions / diagnostics  product function  port diagnostics  statistics Packet Size statistics Packet Size error statistics yes error statistics SysLog yes  Product functions / VLAN  Product function  VLAN - port based VLAN - protocol-based VLAN - protocol-based VLAN - IP-based VLAN / IP-based VLAN / Maximum yes  number of VLANs / maximum 255  product functions / VLANP  Product functions / VLANP  Protocol / is supported / GVRP  Product functions / DHCP  Product function  DHCP Option 82 DHCP Option 66 Pes DHCP Option 67 Yes  Product functions / routing  service / routing / note  Product function e static IP routing  Product function  Product function  Product function  Product function  Product function  Product function  Product function / Yes	• IGMP (snooping/querier)	Yes
■ I&M1 – higher level designation/location designation  product function  ● port diagnostics  ● statistics Packet Size  ● statistics packet type  ● error statistics  ● SysLog  product function  ● VLAN - port based  ● VLAN - port based  ● VLAN - protocol-based  ● VLAN - protocol-based  ● VLAN - protocol based  ● VLAN - Posased  ● VLAN - IP-based  ● VER - IP-based  ● VLAN - IP-based  ● VER - IP-based  ● VLAN - IP-based  ● VER - IP-Based  ●	identification & maintenance function	
product function / diagnostics  product function  • port diagnostics Yes • statistics Packet Size Yes • error statistics • SysLog Yes  product functions / VLAN  product functions / VLAN  product function • VLAN - port based Yes • VLAN - protocol-based Yes • VLAN - protocol-based Yes • VLAN - Maximum Yes  number of VLAN's - dynamic / maximum 255  number of VLAN's - dynamic / maximum 255  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  product functions / routing  service / routing / note  product function • static IP routing  Yes   Yes  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes  Yes  Yes  Yes  Product functions  Yes  IP routing in combination with KEY-PLUG XM-400  Yes  Product functions  Yes	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product function  • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog  product functions / VLAN  product function • VLAN - port based • VLAN - port based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic  number of VLANs - dynamic / maximum  protocol / is supported / GVRP  product function  • DHCP Client • DHCP Option 62 • DHCP Option 67  product function / routing  service / routing / note  product function • static IP routing  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	• I&M1 – higher level designation/location designation	Yes
• port diagnostics     • statistics Packet Size     • statistics packet type     • error statistics     • sysLog  product functions / VLAN  product function     • VLAN - port based     • VLAN - protocol-based     • VLAN - protocol-based     • VLAN dynamic     • VLAN dynamic     number of VLANs / maximum     number of VLANs - dynamic / maximum     protocol / is supported / GVRP  product function      • DHCP Option 82     • DHCP Option 66     • DHCP Option 67  product functions / routing  service / routing / note  product function     • static IP routing     • Static IP routing  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	product functions / diagnostics	
statistics Packet Size     statistics packet type     error statistics     SysLog     Yes      SysLog     Yes      SysLog      Yes      SysLog      Yes      SysLog      Yes      VLAN - port based     VLAN - port based     VLAN - protocol-based     VLAN - IP-based     VES     VES     VES     POHCP Option 67     VES     VES     DHCP Option 67     VES     POHCP Option 67     VES     POHCP Option 67     VES     IP routing in combination with KEY-PLUG XM-400     Product function     • static IP routing     VES	product function	
statistics packet type     error statistics     SysLog     Yes      SysLog  product functions / VLAN  product function     VLAN - port based     VLAN - port based     VLAN - protocol-based     VLAN - IP-based     VLAN dynamic     VLAN dynamic     Yes      vULAN summer of VLANs / maximum     255     number of VLANs - dynamic / maximum     255     protocol / is supported / GVRP  Product functions / DHCP  product function     DHCP client     OHCP Option 82     OHCP Option 66     OHCP Option 67     Yes  product functions / routing  service / routing / note     IP routing in combination with KEY-PLUG XM-400  product function     e static IP routing     Yes	<ul> <li>port diagnostics</li> </ul>	Yes
error statistics     SysLog     Yes  Product functions / VLAN  product function      VLAN - port based     VLAN - protocol-based     VLAN - IP-based     VLAN - IP-based     VLAN - Wes      VES      VLAN - Wes      VLAN - Wes      VES      VES      DHCP Option 82      VES      DHCP Option 66      Yes      DHCP Option 67      Yes      DHCP Option 67      Yes      Product functions / routing      Service / routing / note      product function      • static IP routing      Yes	<ul> <li>statistics Packet Size</li> </ul>	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 functions / DHCP  product function 82 Yes  DHCP Option 82 Yes  DHCP Option 66 Yes  DHCP Option 67 Yes  Product functions / routing  service / routing / note IP routing in combination with KEY-PLUG XM-400  product function  • static IP routing Yes	<ul> <li>statistics packet type</li> </ul>	Yes
product functions / VLAN  product function  • VLAN - port based		Yes
product function  • VLAN - port based  • VLAN - protocol-based  • VLAN - IP-based  • 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  • DHCP Option 67  product functions / routing  service / routing / note  product function  • static IP routing  Yes  Yes  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		Yes
VLAN - port based     VLAN - protocol-based     VLAN - IP-based     VLAN dynamic     VLAN dynamic     ves     vulan dynamic     ves     vulan dynamic     ves     vulan dynamic / yes     number of VLANs / maximum     z55     number of VLANs - dynamic / maximum     z55     protocol / is supported / GVRP     yes  product functions / DHCP  product function     DHCP client     ves     DHCP Option 82     ves     DHCP Option 66     yes     DHCP Option 67     yes  product functions / routing  service / routing / note  product function     static IP routing     Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes	product functions / VLAN	
VLAN - protocol-based     VLAN - IP-based     VLAN dynamic     Yes     vULAN dynamic     Yes  number of VLANs / maximum     255  number of VLANs - dynamic / maximum     255  protocol / is supported / GVRP  Product functions / DHCP  product function     DHCP client     Yes     DHCP Option 82     DHCP Option 66     DHCP Option 67  Product functions / routing  service / routing / note  product function     static IP routing  Yes  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  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     • DHCP Option 67     Yes  product functions / routing  service / routing / note  product function     • static IP routing     Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		Yes
● VLAN dynamic  number of VLANs / maximum  255  number of VLANs - dynamic / maximum  255  protocol / is supported / GVRP  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  product function  ● static IP routing  Yes	<ul> <li>VLAN - protocol-based</li> </ul>	
number of VLANs / maximum  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  Yes  Product functions / routing  service / routing / note  Product function  static IP routing  Yes		Yes
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 / Yes  • DHCP Option 67  Product functions / routing  service / routing / note  product function  • static IP routing  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		
product functions / DHCP  product function		
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  product function  • static IP routing Yes		
product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  Product functions / routing  service / routing / note  • static IP routing  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		Yes
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  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		
DHCP Option 82     DHCP Option 66     Yes     DHCP Option 67     Yes  product functions / routing  service / routing / note  product function     static IP routing  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes	•	
DHCP Option 66     Yes     DHCP Option 67     Yes  product functions / routing  service / routing / note  product function     static IP routing  Yes  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		
● DHCP Option 67  Product functions / routing  service / routing / note  product function  ● static IP routing  Yes  Yes  IP routing in combination with KEY-PLUG XM-400  Yes		
product functions / routing  service / routing / note  product function  • static IP routing  Yes		
service / routing / note  product function  • static IP routing  Yes	·	Yes
product function  • static IP routing  Yes	To the second se	
• static IP routing Yes	service / routing / note	IP routing in combination with KEY-PLUG XM-400
	•	
e statio ID routing IDv6	_	
■ Static in Touting invo	<ul> <li>static IP routing IPv6</li> </ul>	Yes

a di manaja ID no iting	Voc
dynamic IP routing	Yes
dynamic IP routing IPv6	Yes
protocol / is supported	V
• RIPv2	Yes
RIPnG for IPv6	Yes
• OSPFv2	Yes
OSPFv3 for IPv6	Yes
• VRRP	Yes
VRRP for IPv6	Yes
product functions / redundancy	
product function	
<ul><li>ring redundancy</li></ul>	Yes
<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
redundancy procedure STP	Yes
redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
redundancy procedure MSTP	Yes
passive listening	Yes
protocol / is supported	100
• 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
	Yes
broadcast blocking  protocol / is supported.	165
protocol / is supported	Voc
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• 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 safety / from CSA and UL	Group IIC, T4 UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
<ul><li>for safety / from CSA and UL</li><li>for emitted interference</li></ul>	
-	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03
• for emitted interference	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A)
<ul><li>for emitted interference</li><li>for interference immunity</li></ul>	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2
for emitted interference     for interference immunity  MTBF	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2
for emitted interference     for interference immunity  MTBF  reference code	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2 28 y
for emitted interference         • for interference immunity  MTBF  reference code         • acc. to IEC 81346-2         • according to IEC 81346-2:2019	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2 28 y
for emitted interference         • for interference immunity  MTBF  reference code         • acc. to IEC 81346-2         • according to IEC 81346-2:2019  standards, specifications, approvals / CE	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2 28 y
for emitted interference         • for interference immunity  MTBF  reference code         • acc. to IEC 81346-2         • according to IEC 81346-2:2019  standards, specifications, approvals / CE  certificate of suitability / CE marking	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2 28 y  KF KFE
for emitted interference         • for interference immunity  MTBF  reference code         • acc. to IEC 81346-2         • according to IEC 81346-2:2019  standards, specifications, approvals / CE	UL 508, UL 60950-1, CSA C22.2 Nr. 60950-1-03 EN 61000-6-4 (Class A) EN 61000-6-2 28 y  KF KFE

	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	
<ul> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
standards, specifications, approvals / marine classification	1
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Germanische Lloyd (GL)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	Yes
<ul> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	Yes
further information / internet-Links	
Internet-Link	
<ul><li>to web page: selection aid TIA Selection Tool</li></ul>	http://www.siemens.com/tia-selection-tool
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
<ul><li>to website: Industry Mall</li></ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul><li>to website: Image database</li></ul>	http://automation.siemens.com/bilddb
<ul><li>to website: CAx-Download-Manager</li></ul>	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)

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