# **SIEMENS**

### Data sheet

#### Product type designation

## 6GK5408-8GR00-2AM2



#### 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
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Interfaces / for communication / maximum configura	
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	
<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	
• for SFP	8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
Number of combo ports / with RJ45 interface for	8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver
optical plug-in transceiver	
Number of connectable extender modules	2
Number of electrical connections • for SFP Number of combo ports / with RJ45 interface for optical plug-in transceiver	8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver 8; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver

Interfaces / for communication / pluggable / maximu	um
Number of 10/100/1000 Mbit/s RJ45 ports	
• with securing collar	16
<ul> <li>with securing collar / with PoE</li> </ul>	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	
• for operator console	1
<ul> <li>for management purposes</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
• for power supply	1
<ul> <li>for redundant voltage supply</li> </ul>	1
Type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11 port
<ul> <li>for management purposes</li> </ul>	RJ45 port
<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
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

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	
<ul> <li>during operation</li> </ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
<ul> <li>during transport</li> </ul>	-40 +85 °C
Relative humidity	
<ul> <li>at 25 °C / without condensation / during</li> </ul>	95 %
operation / maximum	
Protection class IP	IP20
Design, dimensions and weight	
Design	SIMATIC S7-1500 device design
Width	140 mm
Height	147 mm
Depth	125 mm
Net weight	1.15 kg
Mounting type	
• 19-inch installation	No
<ul> <li>35 mm DIN rail mounting</li> </ul>	Yes
<ul> <li>wall mounting</li> </ul>	No
• S7-300 rail mounting	Yes
<ul> <li>S7-1500 rail mounting</li> </ul>	Yes
Product properties, functions, components / general	
Cascading in cases of star topology	any (depending only on signal propagation time)
Product functions / management, configuration	
Product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes

<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
<ul> <li>Port mirroring</li> </ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
<ul> <li>switch-managed</li> </ul>	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
<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	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
<ul> <li>Statistics packet type</li> </ul>	Yes
• Error statistics	Yes
● SysLog	Yes
Due du st france //// AN	
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
	200

Protocol / is supported / GVRP     Yes       Product functions     DHCP Option 82       • DHCP Option 82     Yes       • DHCP Option 86     Yes       • DHCP Option 87     Yes       Product functions / Routing     Yes       Service / Routing / Note     IP routing integrated, IPv6 available soon       Product functions / Routing     Yes       Static IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       • Optor Fir2     Yes       • RIPv2     Yes       • RIPv3     Yes       • OSPFv3 for IPv6     No       • OSPFv3 for IPv6     No       • OSPFv3 for IPv6     No       • VRRP tor IPv6     No       • Product function     Yes       • High Speed redundancy Protocol (HRP)     Yes       • High Speed redundancy Protocol (HRP) with redundancy manager     Yes       • high speed redundancy Protocol (HRP) with redundancy manager     Yes       • India redundancy Protocol (HRP) with redundancy manager     Yes	Number of VLANs - dynamic / maximum	255
Product function     Yes       DHCP Option 82     Yes       DHCP Option 86     Yes       DHCP Option 67     Yes       Product functions / Routing     IP routing integrated, IPv6 available soon       Product function     IP routing integrated, IPv6 available soon       Product function     Yes       • Static IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       • RIPv2     Yes       • RIPv3     Yes       • RIPv3     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • VRRP for IPv6     No       Product function     Yes       • High Speed Redundancy Protocol (HRP) with redundancy anager     Yes       • high speed redundancy protocol (HRP) with redundancy manager     Yes       • Ingin seed redundancy protocol (MRP) with redundancy manager     Yes       • redundancy protocol (MRP) with redundancy protocol (MRP) Yes       • redundancy proto	Protocol / is supported / GVRP	Yes
Product function     Yes       DHCP Option 82     Yes       DHCP Option 86     Yes       DHCP Option 67     Yes       Product functions / Routing     IP routing integrated, IPv6 available soon       Product function     IP routing integrated, IPv6 available soon       Product function     Yes       • Static IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       • RIPv2     Yes       • RIPv3     Yes       • RIPv3     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • VRRP for IPv6     No       Product function     Yes       • High Speed Redundancy Protocol (HRP) with redundancy anager     Yes       • high speed redundancy protocol (HRP) with redundancy manager     Yes       • Ingin seed redundancy protocol (MRP) with redundancy manager     Yes       • redundancy protocol (MRP) with redundancy protocol (MRP) Yes       • redundancy proto		
• DHCP CleintYes• DHCP Option 82Yes• DHCP Option 86Yes• DHCP Option 67YesProduct functions / RoutingIP routing integrated, IPv6 available soonProduct functionIP routing integrated, IPv6 available soonProduct functionYes• Static IP routing IPv6No• dynamic IP routing IPv6No• dynamic IP routing IPv6No• dynamic IP routing IPv6No• RIPv2Yes• RIPv3 for IPv6No• OSPFv2Yes• OSPFv2Yes• OSPFv2Yes• OSPFv2Yes• NRPYes• VRRP for IPv6No• VrRP for IPv6Yes• High Speed Redundancy Protocol (HRP) with redundancy manager• high speed redundancy protocol (HRP) with redundancy manager• high speed redundancy protocol (MRP) with redundancy manager• media redundancy protocol (MRP) with redundancy for the potention• media redundancy protocol (MRP) with redun		
DHCP Option 82     Yes       DHCP Option 66     Yes       DHCP Option 67     Yes       Product functions / Routing     IP routing integrated, IPv6 available soon       Product function     IP routing integrated, IPv6 available soon       Product function     IP routing integrated, IPv6 available soon       Product function     IP routing IPv6       Static IP routing IPv6     No       dynamic IP routing IPv6     No       Protocol / is supported     IP routing IPv6       RIPv2     Yes       OSPFv2     Yes       OSPFv3 for IPv6     No       VRRP     Yes       VRP     Yes       VRP     Yes       VRP for IPv6     No       Product function     Yes       Product function     Yes       VRP     Yes       VRP for IPv6     No       Product function     Yes       No     Yes       Product function     Yes       Product function     Yes       No     Yes       High Speed redundancy protocol (HRP) with redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy pr		Yes
DHCP Option 66     Yes       DHCP Option 67     Yes       Product functions / Routing     IP routing integrated, IPv6 available soon       Product function     *       • Static IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       • Protocol / is supported     *       • RIPv2     Yes       • RIPv3 for IPv6     No       • OSPFv2     Yes       • OSPFv3 for IPv6     No       • VRRP     Yes       • VRRP for IPv6     No       • VRRP for IPv6     Yes       • High Speed Redundancy Protocol (HRP) with redundancy protocol (MRP) with		
DHCP Option 67     Yes       Product functions / Routing     IP routing integrated, IPv6 available soon       Product function     Static IP routing IPv6       Static IP routing IPv6     No       - dynamic IP routing IPv6     No       Protocol / is supported     Yes       - RIPv2     Yes       - RIPv2     Yes       - OSPFv2     Yes       - OSPFv2     Yes       - OSPFv2     Yes       - OSPFv2     Yes       - VRRP     Yes       - VRRP for IPv6     No       Product function     Yes       - VRRP for IPv6     No       Product function     Yes       - Nigh speed redundancy     Yes       - High Speed Redundancy Protocol (HRP) with standby redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy manager       - Inigh speed redundancy protocol (HRP) with redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy manager       - Product function     Yes       - media redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy manager     Yes       - redundancy procedure STP     Yes       - redundancy procedure STP     Yes       - redundancy procedure MSTP     Yes       - Passive listening	·	
Product functions / Routing / Note       IP routing integrated, IPv6 available soon         Product function       Yes         • Static IP routing IPv6       No         • dynamic IP routing IPv6       No         • dynamic IP routing IPv6       No         • dynamic IP routing IPv6       No         • RIPv2       Yes         • RIPv2       Yes         • RIPv2 for IPv6       No         • OSPFv2 represented       Yes         • VRRP       Yes         • VRRP for IPv6       No         • VRRP for IPv6       Yes         • High Speed redundancy Protocol (HRP) with redundancy manager       Yes         • High Speed redundancy protocol (HRP) with redundancy manager       Yes         • Troduct function       Yes         • redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy procedure STP		
Service / Routing / Note     IP routing integrated, IPv6 available soon       Product function     Yes       • Static IP routing IPv6     No       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       Protocol / is supported     Yes       • RIPv2     Yes       • RIPv3 for IPv6     No       • OSPFv2     Yes       • OSPFv3 for IPv6     No       • VRRP     Yes       • VRRP     Yes       • VRRP for IPv6     No       Product function     Yes       • Ring redundancy     Yes       • High Speed Redundancy Protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (MRP)     Yes       Protocol / is supported / Media Redundancy Protocol     Yes       Protocol / is supported / Media Redundancy Protocol     Yes       Product function     Yes       • high speed redundancy protocol (MRP) with redundancy protocol (MRP)     Yes       Protocol / is supported / Media Redundancy Protocol     Yes       Product function     Yes       • high speed redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy protocol (MRP)     Yes       Product function     Yes       • Prot		100
Product function     Yes       • Static IP routing     Yes       • dynamic IP routing IPv6     No       • dynamic IP routing IPv6     No       Protocol / is supported     Yes       • RIPv2     Yes       • RIPv2     Yes       • RIPv2     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • OSPFv2     Yes       • OSPFv3 for IPv6     No       • VRRP     Yes       • VRRP for IPv6     No       • VRRP for IPv6     No       Product functions / Redundancy     Yes       • Ring redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy     Yes       • Ingh speed redundancy protocol (HRP) with tedundancy     Yes       • No     Yes       Protocol / is supported / Media Redundancy Protocol (MRP) with redundancy protocol (MRP) Yes       • Redundancy procedure STP     Yes <t< td=""><td></td><td></td></t<>		
Static IP routingYesStatic IP routing IPv6Nodynamic IP routing IPv6NoProtocol / is supportedYesRIPv2YesRIPv5NoOSPFv2YesOSPFv2 for IPv6NoOSPFv2 for IPv6NoVRRPYesVRRP for IPv6NoVRRP for IPv6YesNoYesProduct functions / RedundancyYesProduct functionYesProduct functionYesNigh speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (MRP) with redundancy procedure STPYesProtocol / is supportedYesPassive listeningYesPassive listeningYesProtocol / is supportedYesProtocol / is supportedYesProtocol / is supportedYes		IP routing integrated, IPv6 available soon
Exact IP routing IPv6Noédynamic IP routing IPv6NoProtocol / is supportedYes• RIPv2Yes• RIPv3Yes• RIPv4Yes• RIPv5No• OSPFv2Yes• OSPFv3 for IPv6No• VRRPYes• VRRP for IPv6No• VRRP for IPv6No• VRRP for IPv6NoProduct functions / RedundancyYes• Ring redundancyYes• High Speed Redundancy protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy protocol (HRP) with redundancy managerYes• Product functionYes• high speed redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy managerYes• Protocol / is supported / Media Redundancy ProtocolYes• Product functionYes• Predundancy procedure STPYes• redundancy procedure RSTPYes• Passive listeningYes• Passive listeningYes• Protocol / is supportedYes• Protocol / is supportedYes		
eddynamic IP routing     Yes       edynamic IP routing IPv6     No       Protocol / is supported     Yes       • RIPv2     Yes       • RIPv3 for IPv6     No       • OSPFv2     Yes       • OSPFv3 for IPv6     No       • VRRP     Yes       • VRRP for IPv6     No       • VRRP for IPv6     No       • VRRP for IPv6     No       Product functions / Redundancy     Yes       • High Speed Redundancy Protocol (HRP)     Yes       • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy     Yes       Protocol / is supported / Media Redundancy Protocol (MRP) with redundancy protocol (MRP)     Yes       • redundancy maager     Yes       • redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy protocol (MRP)     Yes       • redundancy procedure STP     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure MSTP     Yes       • Passive listening     Yes       • Protocol / is supported     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         • VRRP for IPv6       No         Product functions / Redundancy       Yes         • VRRP for IPv6       No         Product function       Yes         • High Speed Redundancy Protocol (HRP)       Yes         • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy       Yes         Protocol / is supported / Media Redundancy Protocol (MRP) with redundancy       Yes         • high speed redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy manager       Yes         • redundancy procedure STP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure MSTP       Yes         • Passive listening       Yes         • Protocol / is supported       Yes	-	
Protocol / is supported         • RIPv2       Yes         • RIPv3       No         • OSPFv2       Yes         • OSPFv3 for IPv6       No         • VRRP       Yes         • VRRP for IPv6       No         • VRRP for IPv6       No         Product functions / Redundancy       Yes         • High Speed Redundancy Protocol (HRP)       Yes         • High Speed Redundancy protocol (HRP) with redundancy       Yes         • Nigh speed redundancy protocol (HRP) with redundancy protocol (HRP) with redundancy       Yes         • Protocol / is supported / Media Redundancy Protocol (MRP)       Yes         • redundancy procedure STP       Yes         • redundancy procedure STP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure MSTP       Yes         • Passive listening       Yes         • Passive listening       Yes		
RIPv2YesRIPnG for IPv6NoOSPFv2YesOSPFv3 for IPv6NoVRRPYesVRRP for IPv6NoVRRP for IPv6NoProduct functions / RedundancyYesProduct functionYes+ High Speed Redundancy Protocol (HRP)Yes+ high speed redundancy protocol (HRP) with redundancy managerYes- high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProduct function (MRP)Yes- nedia redundancy protocol (MRP) with redundancy managerYesProduct function (MRP)YesProduct function (MRP)Yes- nedia redundancy protocol (MRP) with redundancy managerYes- redundancy protocol (MRP) with redundancy protocol (MRP) With redundancy managerYes- Product function (memodianed function (memodianed function) (memodianed function)Yes- nedia redundancy protocol (MRP) with redundancy procedure STP (redundancy procedure STP) (redundancy procedure MSTP) (resYes- Passive listeningYes- Protocol / is supportedYes		No
• RIPnG for IPv6       No         • OSPFv2       Yes         • OSPFv3 for IPv6       No         • VRRP       Yes         • VRRP for IPv6       No         Product functions / Redundancy       Yes         • Ring redundancy       Yes         • High Speed Redundancy Protocol (HRP)       Yes         • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with redundancy protocol (MRP) Yes         • redundancy protocol (MRP) with redundancy protocol (MRP) Yes         • Protocol / is supported / Media Redundancy Protocol       Yes         • Protocol / is supported / Yes       Yes         • Protocol / is supported       Yes		
• OSPFv2       Yes         • OSPFv3 for IPv6       No         • VRRP       Yes         • VRRP for IPv6       No         Product function       No         Product function       Yes         • High Speed Redundancy       Yes         • high speed redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy protocol (HRP) with standby redundancy protocol (HRP) with redundancy protocol (HRP) with standby redundancy       Yes         Protocol / is supported / Media Redundancy Protocol (MRP) with redundancy protocol (MRP) Yes         • redundancy protocol (MRP) with redundancy protocol (MRP) With redundancy protocol (MRP) Yes       Yes         • redundancy protocol (MRP) With redundancy protocol (MRP) Yes       Yes         • redundancy protocol (MRP) Yes       Yes         • redundancy protocol (MRP) Yes       Yes <td></td> <td></td>		
COSPFv3 for IPv6No• VRRPYes• VRRP for IPv6NoProduct functions / RedundancyProduct functionYes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProtocol / is supported / Media Redundancy Protocol (MRP)YesProduct function • media redundancy protocol (MRP) with redundancy managerYes• redundancy protocol (MRP) with redundancy managerYes• redundancy protocol (MRP) with redundancy managerYes• redundancy procodure STP • redundancy procedure RSTP • redundancy procedure MSTP • Passive listening • Protocol / is supportedYes• Protocol / is supportedYes		
VRRP • VRRP for IPv6YesProduct functions / RedundancyYesProduct functionYesProduct functionYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProtocol / is supported / Media Redundancy Protocol (MRP)YesProduct functionYes• media redundancy protocol (MRP) with redundancy managerYes• redundancy procedure STP • redundancy procedure MSTPYes• redundancy procedure MSTP • Passive listeningYesProtocol / is supportedYes• Protocol / is supportedYes		
• VRRP for IPv6NoProduct functions / RedundancyYesProduct functionYes• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• Protocol / is supported / Media Redundancy Protocol (MRP)YesProtocol / is supported / Media Redundancy Protocol redundancy managerYes• media redundancy protocol (MRP) with redundancy managerYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure MSTPYes• Passive listeningYes• Protocol / is supportedYes• Protocol / is supportedYes		
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       Yes         • media redundancy protocol (MRP) with redundancy manager       Yes         • redundancy procodure STP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure MSTP       Yes         • Passive listening       Yes         Protocol / is supported       Yes	• VRRP	
Product function       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 redundancy       Yes         Protocol / is supported / Media Redundancy Protocol (MRP)       Yes         Protocol / is supported / Media Redundancy Protocol (MRP)       Yes         Product function       Yes         • media redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy procedure STP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure RSTP       Yes         • redundancy procedure MSTP       Yes         • Passive listening       Yes         Protocol / is supported       Yes	VRRP for IPv6	No
• Ring redundancyYes• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• Protocol / is supported / Media Redundancy Protocol (MRP)YesProduct function • media redundancy protocol (MRP) with redundancy managerYes• fredundancy protocol (MRP) with redundancy protocol (MRP) with redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure MSTPYes• Passive listeningYes• Protocol / is supportedYes		
<ul> <li>High Speed Redundancy Protocol (HRP)</li> <li>High Speed Redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>Protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>Product function</li> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>Product function</li> <li>Yes</li> <li>redundancy protocol (MRP) with redundancy protocol (MRP) with</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>Product function</li> <li>Yes</li> <li>redundancy protocol (MRP) with redundancy procedure STP</li> <li>Yes</li> <li>redundancy procedure MSTP</li> <li>Yes</li> <li>Passive listening</li> <li>Yes</li> </ul>	Product function	
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> <li>high speed redundancy protocol (HRP) with standby redundancy</li> <li>Protocol / is supported / Media Redundancy Protocol (MRP)</li> <li>Product function</li> <li>media redundancy protocol (MRP) with redundancy protocol (MRP) with redundancy procedure STP</li> <li>Yes</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>Passive listening</li> <li>Protocol / is supported</li> </ul>	<ul> <li>Ring redundancy</li> </ul>	Yes
redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesProtocol / is supported / Media Redundancy Protocol (MRP)YesProduct functionYes• media redundancy protocol (MRP) with redundancy managerYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure MSTPYes• Passive listeningYesProtocol / is supportedYes	<ul> <li>High Speed Redundancy Protocol (HRP)</li> </ul>	Yes
standby redundancy       Yes         Protocol / is supported / Media Redundancy Protocol (MRP)       Yes         Product function       Yes         • 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       Yes		Yes
(MRP)       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       Yes		Yes
• media redundancy protocol (MRP) with redundancy managerYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure MSTPYes• Passive listeningYesProtocol / is supportedYes		Yes
redundancy manager • redundancy procedure STP Yes • redundancy procedure RSTP Yes • redundancy procedure MSTP Yes • Passive listening Yes	Product function	
• redundancy procedure RSTP Yes     • redundancy procedure MSTP Yes     • Passive listening Yes     Protocol / is supported		Yes
• redundancy procedure MSTP Yes     • Passive listening Yes  Protocol / is supported	<ul> <li>redundancy procedure STP</li> </ul>	Yes
Passive listening Yes Protocol / is supported	<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
Protocol / is supported	<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
	Passive listening	Yes
• LACP Yes	Protocol / is supported	
	• LACP	Yes

Product function     Yes       • 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     Yes       • SSH     Yes       Product functions / Time       Product function     Yes       • SICLOCK support     Yes       Protocol / is supported     Yes       • SICLOCK support     Yes       Protocol / is supported     Yes       • SICLOCK support     Yes       Protocol / is supported     Yes       • SICLOCK support     Yes       Protocol / is supported     Yes       • SITP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon       Standard     Standard
<ul> <li>ACL - port/MAC-based</li> <li>ACL - port/MAC-based</li> <li>Yes</li> <li>IEEE 802.1x (radius)</li> <li>Yes</li> <li>Broadcast/Multicast/Unicast Limiter</li> <li>broadcast blocking</li> <li>Yes</li> <li>Protocol / is supported</li> <li>SSH</li> <li>Yes</li> <li>Product functions / Time</li> <li>Product function         <ul> <li>SICLOCK support</li> <li>Yes</li> </ul> </li> <li>Protocol / is supported</li> <li>SICLOCK support</li> <li>Yes</li> <li>Protocol / is supported</li> <li>SICLOCK support</li> <li>Yes</li> <li>Protocol / is supported</li> <li>IEEE 1588 available soon</li> <li>Standards, specifications, approvals</li> </ul>
• IEEE 802.1x (radius)         Yes           • Broadcast/Multicast/Unicast Limiter         Yes           • broadcast blocking         Yes           Protocol / is supported         Yes           • SSH         Yes           Product functions / Time         Yes           Protocol / is supported         Yes           • SICLOCK support         Yes           Protocol / is supported         Yes           • SICLOCK support         Yes           Protocol / is supported         Yes           • SICLOCK support         Yes           Protocol / is supported         Yes           • NTP         Yes           • SNTP         Yes           Type of time synchronization         IEEE 1588 available soon           Standards, specifications, approvals         Standards, specifications, approvals
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     SNTP Yes  Type of time synchronization IEEE 1588 available soon  Standards, specifications, approvals
• broadcast blocking     Yes       Protocol / is supported     Yes       • SSH     Yes       Product functions / Time     Yes       Product function     Yes       • SICLOCK support     Yes       Protocol / is supported     Yes       • NTP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon
Protocol / is supported     Yes       Product functions / Time     Product function       Product function     Yes       Protocol / is supported     Yes       Protocol / is supported     Yes       • NTP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon
Protocol / is supported       Yes         Product functions / Time       Product function         Product function       Yes         • SICLOCK support       Yes         Protocol / is supported       Yes         • NTP       Yes         • SNTP       Yes         Type of time synchronization       IEEE 1588 available soon         Standards, specifications, approvals       Ves
Product functions / Time       Product function       • SICLOCK support       Yes       Protocol / is supported       • NTP       • SNTP       Type of time synchronization       IEEE 1588 available soon
Product function       Yes         • SICLOCK support       Yes         Protocol / is supported       Yes         • NTP       Yes         • SNTP       Yes         Type of time synchronization       IEEE 1588 available soon         Standards, specifications, approvals       Standards, specifications, approvals
• SICLOCK support     Yes       Protocol / is supported     Yes       • NTP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon
Protocol / is supported     Yes       • NTP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon
• NTP     Yes       • SNTP     Yes       Type of time synchronization     IEEE 1588 available soon       Standards, specifications, approvals
SNTP Yes Type of time synchronization IEEE 1588 available soon Standards, specifications, approvals
Type of time synchronization     IEEE 1588 available soon       Standards, specifications, approvals
Standards, specifications, approvals
Standard
Statiuaru
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
Certificate of suitability / CE marking Yes
Certificate of suitability EN 61000-6-2, EN 61000-6-4
• C-Tick Yes
• KC approval Yes
Marine classification association
American Bureau of Shipping Europe Ltd.     No     (ABS)
Bureau Veritas (BV)     No
Det Norske Veritas (DNV)     Yes
Germanische Lloyd (GL)     No
Lloyds Register of Shipping (LRS)     Yes
• Nippon Kaiji Kyokai (NK) Yes
Polski Rejestr Statkow (PRS)     Yes
Royal Institution of Naval Architects (RINA)     Yes
MTBF / at 40 °C 28 y

Further Information / Internet Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	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
<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
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
Security information	
Security information	Siemens provides products and solutions with industrial security

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more information about industrial security, visit

http://support.automation.siemens.com. (V3.4)

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