## **SIEMENS**

## **Data sheet**

## 6GK5324-4QG10-3AR2

SCALANCE XR324-4M PoE; Managed IE switch, 19" rack; 8x 10/100/1000 Mbit/s for RJ45 ports electrical with PoE, 8x 10/100/1000 Mbit/s for RJ45 ports electrical without PoE 4x 10/100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device; C-plug in scope of delivery; Power supply 230 V AC; Ports in the front.



Figure similar

product type designation	SCALANCE XR324-4M PoE		
transfer rate			
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s		
interfaces / for communication / maximum configuration for mo	interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	24		
number of optical ports / maximum	8		
interfaces / for communication / integrated			
number of electrical connections			
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45		
• for Power-over-Ethernet / for network components or terminal equipment	8		
number of 100 Mbit/s ST(BFOC) ports			
for multimode	8		
number of 100 Mbit/s SC ports			
for multimode	8		
number of 1000 Mbit/s LC ports			
• for multimode	8		
<ul> <li>for single mode (LD)</li> </ul>	8		
interfaces / other			
number of electrical connections			
<ul> <li>for operator console</li> </ul>	1		
<ul> <li>for signaling contact</li> </ul>	1		
<ul> <li>for media module</li> </ul>	4		
for power supply	1		
type of electrical connection			
<ul> <li>for operator console</li> </ul>	RJ11		
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block		
for power supply	2-pole terminal block		
design of the removable storage			
• C-PLUG	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			
type of voltage supply / redundant power supply unit	No		
type of voltage / 1 / of the supply voltage			
<ul> <li>supply voltage / 1 / rated value</li> </ul>	230 V		

<ul><li>power loss [W] / 1 / rated value</li></ul>	46 W
<ul><li>supply voltage / 1 / rated value</li></ul>	85 264 V
<ul><li>consumed current / 1 / maximum</li></ul>	1 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	2-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
• note	With vertical installation, the maximum operating temperature is reduced to 60
	°C.
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation /</li> </ul>	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	19" rack
number of modular height units / relating to 19-inch cabinet	1
width	449 mm
height	43.6 mm
depth	305 mm
net weight	6.8 kg
fastening method	When used in shipbuilding, the device must be secured in the 19" rack at four points
• 19-inch installation	Yes
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	No
wall mounting	No
S7-300 rail mounting	No
• S7-1500 rail mounting	No
product features, product functions, product components / gene	eral
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
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	Yes
TRAPs via email	Yes
• configuration with STEP 7	Yes
RMON	Yes
	Yes
port mirroring     multiport mirroring	
multiport mirroring     Cos	Yes
• CoS	Yes
PROFINET TO diagnosis	Yes
PROFINET conformity class	B
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
◆ TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
SNMP v2	Yes
• SNMP v2 • SNMP v3	Yes

identification & maintenance function  • I&MA - Injune level designation forcement  • IAM - Injune level designation designation  • product functions  • port diagnostics  • product function  • port diagnostics  • yes  • statistics Pracet Size  • statistics Pracet Size  • statistics Pracet Size  • statistics packet type  • yes  • statistics packet type  • yes  • statistics packet type  • yes  • product function  • VLAN - port based  • VLAN - port based  • VLAN - protoco-based  • VLA		
Name	identification & maintenance function	
product functions / diagnostics  product function  oper diagnostics ostalistics Packet Size ostalistics packet type error statistics Syst.og  product functions / VLAN  ves over a ve	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product function  product function  product function  product function  product functions / VLAN  product functions / VLAN  product function  VLAN - port based  No  VLAN - port based  No  VLAN - port based  No  VLAN - port based  VLAN - port based  VLAN - port based  VLAN - port based  No  VES  Product function  Product function  Product functions / redundancy  product function  Prospective function  Product function Procedure RSTP  Product function Procedure RSTP  Product function Procedure  Pro	<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
port diagnostics     statistics Packet Size     statistics packet type     reor statistics     system     error statistics     yes     error statistics     yes	product functions / diagnostics	
statistics Packet Size     statistics packet type     endro statistics     syst og     endro statistics     yes     endro statistics     yes     endro statistics     yes     yes  product functions / VLAN  product function     *VLAN - port based     *VLAN - protocol-based     *VLAN - dynamic     ves     number of VLANs - dynamic / maximum     255     number of VLANs - dynamic / maximum     255     number of VLANs - dynamic / maximum     255     protocol / is supported / GVRP     yes     product functions / DHCP  product functions / DHCP  product function     *OHCP Option 82     *OHCP Option 86     *OHCP Option 87     *Pes     *OHCP Option 87     *Pes     *OHCP Option 87     *Yes     *Injin speed redundancy protocol (HRP) with redundancy manager     *Injin speed redundancy protocol (HRP) with redundancy manager     *Injin speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)     *Pes     *redundancy procedure RSTP     *eredundancy procedure RSTP     *es     *estination procedure MSTP     *es     *estination procedure RSTP     *es     *estinati	product function	
e statistics packet type error statistics \$	<ul> <li>port diagnostics</li> </ul>	Yes
e error statistics syst.og  product functions / VLAN  product function  • VLAN - protocol-based Yes • VLAN - protocol-based No •	statistics Packet Size	Yes
SysLog product functions /VLAN protocol-based VLAN - protocol-based No VLAN - Posted VLAN - Vision	<ul> <li>statistics packet type</li> </ul>	Yes
product function / VLAN prot based	• error statistics	Yes
product function  • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN - IP-based • VLAN - IP-based • VLAN dynamic  number of VLANs (maximum 255  number of VLANs (maximum 255  number of VLANs (maximum 255  protocol /is supported / GVRP  product functions / DHCP  product functions / Potent • DHCP Option 82 • DHCP Option 83 • DHCP Option 86 • DHCP Option 66 • DHCP Option 67  product functions / redundancy  product functions / redundancy  product functions / redundancy  product functions / redundancy  product functions / redundancy Protocol (HRP) with redundancy wes • high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  • redundancy procedure STP • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP • passive listening  protocol / is supported  • STP/RSTP • passive listening  protocol / is supported  • STP/RSTP • RSTP • R	SysLog	Yes
• VLAN - protocol-based • VLAN - protocol-based • VLAN - Probased • VLAN - Probased • VLAN - Pobased • VLAN dynamic  rumber of VLANs - dynamic / maximum 255  protocol / is supported / GVRP  product function • DHCP Client • DHCP Option 82 • DHCP Option 82 • DHCP Option 67 • DHCP Option 7  Product functions / Protocol (HRP)  * ring redundancy protocol (HRP) with redundancy * ring redundancy protocol (HRP) with standby * redundancy * ring redundancy protocol (HRP) with standby * redundancy	product functions / VLAN	
VLAN - IP-based VLAN (P-based VLAN (Pymanic VLAN (Aymanic)  ves number of VLANs (maximum 255 number of VLANs (maximum) 255 product functions / DRCP  product functions / DRCP  product functions / DRCP  product function (POLP)  - DRCP Option 82 - DRCP Option 66 - DRCP Option 67 - Ves - DRCP Option 67 - Yes  product functions / redundancy  product functions / redundancy  product functions / redundancy  product functions / redundancy  - Impression of the product function (PRP) - High Speed Redundancy Protocol (HRP) with redundancy manager - high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP) - redundancy  protocol / is supported / Media Redundancy Protocol (MRP) - redundancy procedure STP - redundancy procedure STP - redundancy procedure MSTP - resolved Istering - protocol / is supported - STP/RSTP - resolved Istering - Protocol / is supported - STP/RSTP - RSTP -	product function	
VLAN - IP-based VLAN dynamic No VLAN dynamic Nember of VLANs - dynamic / 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 86 DHCP Option 86 DHCP Option 87 Product function  ing redundancy High Speed Redundancy Protocol (HRP) High Speed Redundancy protocol (HRP) Yes high speed redundancy protocol (HRP) With redundancy manager high speed redundancy protocol (HRP) Yes redundancy Product function  media redundancy protocol (MRP) Yes redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) With redundancy manager redundancy procedure RSTP Yes redundancy procedure RSTP Yes Pessive listening Pyes  protocol / is supported STPRSTP Pessive listening Pyes PSTP PYes RSTP NSTP Pyes RSTP Pyes PSSTP	<ul> <li>VLAN - port based</li> </ul>	Yes
• VLAN dynamic  number of VLANs / maximum  255  protocol / is supported / GVRP  yes  product functions / DHCP  product functions  • DHCP client  • DHCP option 82  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions  • ring redundancy  product function  • ring redundancy Protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure RSTP  • passive listening  protocol / is supported  • STP/RSTP  • RSTP	<ul> <li>VLAN - protocol-based</li> </ul>	No
number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP Yes product functions / DHCP product function	VLAN - IP-based	No
number of YLANs - dynamic / maximum  product functions / DHCP  product functions / DHCP  product functions / DHCP  product functions / DHCP Option 82  DHCP Option 86  DHCP Option 87  Product functions / redundancy  ing redundancy  High Speed Redundancy Protocol (HRP) with redundancy  high speed redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  media redundancy protocol (MRP) with redundancy redundancy protocol (IRP)  product function  media redundancy protocol (MRP) with redundancy redundancy protocol (IRP)  product function  media redundancy protocol (MRP) with redundancy redundancy protocol (IRP)  product function  protocol / is supported / Media Redundancy Mrth redundancy redundancy protocol redundancy protocol redundancy protocol redundancy protocol redundancy protocol redundancy redundancy protocol redundancy protocol redundancy protocol redundancy redundancy redundancy redundancy redundancy protocol redundancy redundan		Yes
protocol / is supported / GVRP  product functions / DHCP  product functions  DHCP client  DHCP Option 82  DHCP Option 66  DHCP Option 67  product functions  ing redundancy  redundancy  high speed redundancy protocol (HRP) with redundancy manager  high speed redundancy protocol (HRP) with standby redundancy  product function  ing supported / Media Redundancy Protocol (MRP)  Product function  product function  redundancy protocol (HRP) with redundancy manager  high speed redundancy protocol (HRP) with redundancy manager  high speed redundancy protocol (MRP)  product function  redundancy  redundancy  redundancy procedure STP  redundancy procedure STP  redundancy procedure MSTP  redundancy procedure MSTP  redundancy procedure MSTP  redundancy protocol  STP/RSTP  STP  STP  RSTP  MSTP  RSTP  MSTP  RSTP  RSTP  STP  RSTP  RS		
product functions / DHCP  product function  • DHCP client  • DHCP Option 82  • DHCP Option 66  • DHCP Option 67  product functions / redundancy  product functions  • ring redundancy  • high Speed Redundancy Protocol (HRP) with redundancy  manager  • high speed redundancy protocol (HRP) with standby redundancy  product function  • redundancy protocol (HRP) with standby redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy  manager  • redundancy procedure RSTP  • redundancy procedure RSTP  • redundancy procedure MSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP  • STP  • RSTP  • RSTP big network support  • LACP  • Pes  product functions  • ACL - MAC-based		
product function  • DHCP client Yes  • DHCP Option 82 Yes  • DHCP Option 66 Yes  • DHCP Option 67 Yes  • DHCP Option 67 Yes  • DHCP Option 67 Yes  product functions / redundancy  product functions / redundancy  • High Speed Redundancy Protocol (HRP) Yes  • High speed redundancy protocol (HRP) with redundancy manager  • high speed redundancy protocol (HRP) with standby redundancy  redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP Yes  • redundancy procedure MSTP Yes  • redundancy procedure MSTP Yes  • passive listening Yes  protocol / is supported  • STP/RSTP Yes  • RSTP Yes  • LACP Yes  product functions / security  product functions  • ACL - MAC-based		Yes
DHCP Option 82 DHCP Option 66 DHCP Option 67 Product functions / redundancy  product function inig redundancy redundancy inigh Speed redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy redundancy inigh speed redundancy Protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP)  manager  redundancy protocol (MRP) with redundancy redundancy protocol / is supported / Media Redundancy Protocol (MRP) redundancy procedure STP redundancy procedure STP redundancy procedure MSTP passive listening protocol / is supported  STP/RSTP STP STP STP STP STP STP STP STP STP		
DHCP Option 82 OHCP Option 66 DHCP Option 67 Yes  Product functions / redundancy  product function  ing redundancy Fing redundancy Protocol (HRP) Fing speed Redundancy Protocol (HRP) with redundancy Fredundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  media redundancy protocol (MRP) with redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  media redundancy protocol (MRP) with redundancy  manager  redundancy procedure STP  redundancy procedure RSTP  redundancy procedure MSTP  spassive listening  protocol / is supported  STP/RSTP  massive listening  protocol / is supported  STP/RSTP  MSTP  RSTP  MSTP  RSTP  RSTP  MSTP  RSTP  RST	·	
DHCP Option 66     DHCP Option 67     Yes  product functions / redundancy  product function     inig redundancy     High Speed Redundancy Protocol (HRP)     inigh speed redundancy protocol (HRP) with redundancy manager     high speed redundancy protocol (HRP) with standby redundancy     protocol / is supported / Media Redundancy Protocol (MRP)  product function     media redundancy protocol (MRP) with redundancy manager     redundancy protocol (MRP) with redundancy manager     redundancy procedure STP     redundancy procedure RSTP     redundancy procedure MSTP     redundancy procedure MSTP     passive listening     yes  protocol / is supported      STP/RSTP     Yes     RSTP     RSTP     RSTP     RSTP     RSTP     RSTP     Yes     RSTP big network support     LACP     Yes  product function     ACL - MAC-based     Yes		
DHCP Option 67  product functions / redundancy  product function  ing redundancy  High Speed Redundancy Protocol (HRP)  high speed redundancy protocol (HRP) with redundancy manager  high speed redundancy protocol (HRP) with standby redundancy  redundancy  protocol / is supported / Media Redundancy Protocol (MRP)  product function  media redundancy protocol (MRP) with redundancy manager  redundancy procedure STP  redundancy procedure STP  redundancy procedure MSTP  passive listening  protocol / is supported  STP/RSTP  STP  STP  STP  STP  RSTP  RSTP  RSTP  RSTP  RSTP  RSTP  RSTP  RSTP  RSTP  Yes  RSTP  RSTP  Yes  RSTP  RSTP  Yes  RSTP  RSTP  Yes  RSTP  Yes  RSTP  RSTP  Yes  RSTP  RSTP  Yes  RSTP  Yes  RSTP  Yes  RSTP	·	
product function / erdundancy protocol (HRP) Yes   • high Speed Redundancy protocol (HRP) with redundancy manager   • high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) Yes   product function   • media redundancy protocol (MRP) with redundancy manager   • redundancy protocol (MRP) with redundancy   product function   • media redundancy protocol (MRP) with redundancy   manager   • redundancy procedure STP	•	
product function  • ring redundancy • High Speed Redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy redundancy protocol /is supported / Media Redundancy Protocol (MRP)  protocol / is supported / Media Redundancy Protocol (MRP)  product function • media redundancy protocol (MRP) with redundancy Mesia redundancy procedure STP • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • passive listening  protocol / is supported • STP/RSTP • STP • STP • RSTP Yes • RSTP big network support • LACP  product functions / security  product functions / security		Yes
<ul> <li>ring redundancy</li> <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>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>strp/RSTP</li> <li>STP/RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		
<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>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>yes</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		V
<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 manager</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>	-	
manager		
redundancy protocol / is supported / Media Redundancy Protocol (MRP)  product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP  product function  • ACL - MAC-based  Yes  Yes  Yes  Yes  Yes  Yes  Yes	manager	
product function  • media redundancy protocol (MRP) with redundancy manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP  product function  • ACL - MAC-based  Yes  Yes  Yes  Yes  Yes  Yes  Yes	redundancy	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> <li>redundancy procedure STP</li> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>yes</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		Yes
manager  • redundancy procedure STP  • redundancy procedure RSTP  • redundancy procedure MSTP  • redundancy procedure MSTP  • passive listening  protocol / is supported  • STP/RSTP  • STP  • RSTP  • RSTP  • RSTP  • RSTP big network support  • LACP  product functions / security  product function  • ACL - MAC-based  Yes  Yes  Yes  Yes  Yes	·	V
<ul> <li>redundancy procedure RSTP</li> <li>redundancy procedure MSTP</li> <li>yes</li> <li>passive listening</li> <li>yes</li> </ul> protocol / is supported <ul> <li>STP/RSTP</li> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Product functions / security</li> </ul> product function <ul> <li>ACL - MAC-based</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes</li> </ul> Product function <ul> <li>ACL - MAC-based</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes <ul> <li>Yes</li> </ul> Product function <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes <ul> <li>Yes</li> </ul> Yes <ul> <li>Yes <ul> <li>Yes</li> </ul></li></ul></li></ul></li></ul>	manager	
<ul> <li>redundancy procedure MSTP</li> <li>passive listening</li> <li>yes</li> <li>protocol / is supported</li> <li>STP/RSTP</li> <li>STP</li> <li>Yes</li> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		
passive listening  protocol / is supported      STP/RSTP      STP      RSTP      RSTP      RSTP      RSTP big network support      LACP  product functions / security  product function      ACL - MAC-based  Yes  Yes  Yes  Yes  Yes  Yes  Yes		
protocol / is supported  • STP/RSTP  • STP  • RSTP  • MSTP  • MSTP  • RSTP big network support  • LACP  product functions / security  product function  • ACL - MAC-based  Yes  Yes  Yes  Yes  Yes  Yes  Yes		
• STP/RSTP • STP • STP • RSTP • MSTP • RSTP big network support • LACP  product functions / security  ACL - MAC-based  Yes  Yes  Yes  Yes  Yes  Yes  Yes		res
<ul> <li>STP</li> <li>RSTP</li> <li>MSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>LACP</li> <li>Yes</li> <li>product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		Voc
<ul> <li>RSTP</li> <li>MSTP</li> <li>RSTP big network support</li> <li>LACP</li> <li>Yes</li> <li>LACP</li> <li>Yes</li> <li>product functions / security</li> <li>product function</li> <li>ACL - MAC-based</li> <li>Yes</li> </ul>		
MSTP     RSTP big network support     LACP     Yes  product functions / security  product function     ACL - MAC-based  Yes		
◆ RSTP big network support     ◆ LACP     Yes  product functions / security  product function     ◆ ACL - MAC-based  Yes		
◆ LACP Yes  product functions / security  product function     ◆ ACL - MAC-based Yes		
product functions / security  product function  • ACL - MAC-based  Yes		
product function  ◆ ACL - MAC-based Yes		
• ACL - MAC-based Yes		
	•	Yes
	ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)  Yes		
broadcast/multicast/unicast limiter  Yes		
broadcast blocking     Yes	broadcast blocking	Yes
protocol / is supported		
• SSH Yes		Yes
product functions / time	product functions / time	
product function	product function	
• SICLOCK support Yes	SICLOCK support	Yes
protocol / is supported	protocol / is supported	

• NTP	Yes
• SNTP	Yes
IEEE 1588 profile default	Yes
standards, specifications, approvals	
standard	
for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
for emitted interference	EN 61000-6-4:2007 (Class A)
for interference immunity	EN 61000-6-2:2006
reference code	
<ul> <li>according to IEC 81346-2</li> </ul>	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	-
• from CSA and UL	No
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2006, EN 61000-6-4:2007
• C-Tick	Yes
<ul> <li>KC approval</li> </ul>	Yes
standards, specifications, approvals / marine classification	
Marine classification association	
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</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
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