SIEMENS

Data sheet

6GK5334-3TS00-2AR3

SCALANCE XR322-12; managed layer 2; IE switch, 19" rack; 20x 100/1000 Mbps RJ45 port; 2x 1G/2.5G/5G/10 Gbps RJ45 port, 4x 100M/1G SFP port; 8x 1G/10G SFP+ port; LED diagnostics; error signaling contact; select/set button; PROFINET IO device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); CLP included in scope of supply; power supply 24 V DC;



product type designation	
product brand name	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, 5 Gbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	22; RJ45
number of 10/100/1000 Mbit/s RJ45 ports	
• with securing collar	22
number of 1000/2500/5000/10000 Mbps RJ45 ports / with securing collar	2
number of electrical connections	
• for SFP	4; 100 Mbps and 1000 Mbps SFP usable
• for SFP+	8; 1000 Mbps and 10000 Mbps SFP usable
interfaces / other	
number of electrical connections	
 for operator console 	1
 for signaling contact 	1
 for power supply 	1
type of electrical connection	
 for operator console 	USB (2.0 Port, Type B, serial via USB)
 for signaling contact 	2-pole terminal block
 for power supply 	2 x 2-pin terminal block
design of the removable storage	
• CLP	Yes
operating voltage / of the signaling contacts	
 at AC / rated value 	24 V
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
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
 power loss [W] / 1 / rated value 	72 W
 supply voltage / 1 / rated value 	19.2 31.2 V
 consumed current / 1 / maximum 	3 A
 type of electrical connection / 1 / for power supply 	2 x 2-pole terminal block
 product component / 1 / fusing at power supply input 	Yes



fuse protection type / 1 / at input for supply voltage	F 10 A / 250 V			
type of voltage / 2 / of the supply voltage	AC (50 / 60Hz)			
 supply voltage / 2 / rated value 	24 V			
power loss [W] / 2 / rated value	72 W			
 supply voltage / 2 / rated value 	19.2 30 V			
 consumed current / 2 / maximum 	3 A			
 type of electrical connection / 2 / for power supply 	2 x 2-pole terminal block			
 fuse protection type / 2 / at input for supply voltage 	F 10 A / 250 V			
ambient conditions				
ambient temperature / in horizontal mounting position / during operation	-40 +60 °C; Starting at -40 °C; The maximum ambient temperature during operation depends on the operating height and the plug-in transceivers, see also manual.			
installation altitude / at height above sea level / maximum	4000 m			
relative humidity				
 at 25 °C / without condensation / during operation / maximum 	95 %			
operating condition / fanless operation	Yes			
protection class IP	IP20			
design, dimensions and weights				
design	19" rack			
number of modular height units / relating to 19-inch cabinet	1			
width	446 mm			
height	43.6 mm			
depth	374.8 mm			
net weight	8 kg			
material / of the enclosure	metal			
fastening method				
• 19-inch installation	Yes			
product features, product functions, product components / gene				
cascading in the case of a redundant ring / at reconfiguration	50			
time of <\~0.3\~s				
cascading in cases of star topology	any (depending only on signal propagation time)			
number of automatically learnable MAC addresses	16382			
number of QoS queues / per port	8			
product function				
 QoS according to IEEE 802.1Q 	Yes			
product feature				
 Store & Forward switching method 	Yes			
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			
SMTP server	No			
port mirroring	Yes			
multiport mirroring Enconsulated Remete Traffic Mirroring (ERTM)	Yes			
Encapsulated Remote Traffic Mirroring (ERTM)	Yes			
• CoS	Yes			
PROFINET IO diagnosis	Yes			
• switch-managed	Yes			
PROFINET conformity class	В			
network load class / according to PROFINET	3			
telegram length / for Ethernet / maximum	9194 byte			
protocol / is supported				
Telnet	Yes			
• HTTP	Yes			
• HTTPS	Yes			
• TFTP	Yes			
• FTP	Yes			



• SFTPYes• SFTPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAP /-1Yes• SMAP /-2Yes• SMAP /-3Yes• SMAP /-3Yes		
• ACTOONFVis• CMAPYis• CMAPYis• CDAPYis• CDAPYis• EnterNatPIPYis• SINNP v1Yis• SINNP v2Yis• SINNP v3Yis• SI	• SFTP	Yes
NAMPYes• LDPYes• EntrafectiPYes• EntrafectiPYes<	• BOOTP	Yes
ODPYes• LDPYes• SNNP v1Yes• SNNP v2Yes• SNNP v3Yes• SNNP v3Yes• SNNP v3Yes• SNNP v6Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v6Yes• SNNP v6Yes• SNNP v7Yes• SNNP v7Yes• SNNP v7Yes• SNNP v8Yes• SNNP v8 <td>NETCONF</td> <td>Yes</td>	NETCONF	Yes
I.LDPYos• ElberkellPYos• SNAP v2Yos• SNAP v3Yos• SNAP v4Yos• SNAP v5Yos• S	• GMRP	Yes
• Elserble200Yes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (encopinginginere)Yes• IGMP (encopinginginere)Yes	• DCP	Yes
• SNAP v1Y6s• SNAP v3Yes• SNAP v3Yes• SNAP v3Yes• SNAP v4Yes• SNAP v5Yes• SNAP v5Yes• SNAP v5Yes• SNAP v6Yes• SNAP v7Yes•	• LLDP	Yes
• SNMP v2Yes• SNMP v3Yes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & IntenationYes• Identification & IdentificationYes• VLAN - pottoseYes• VLAN - pottoseNo• Identification & IdentificationYes• VLAN - pottoseNo• Identification & IdentificationYes• VLAN - PathosedNo• Unitien & Identification & IdentificationYes• VLAN - Identification & IdentificationYes• VLAN - Identification & IdentificationYes• Identification & IdentificationYes• Dick P Option R5Yes• Dick P Option R5Yes• Obck P Option R5Yes	EtherNet/IP	Yes
• FOMP v3YeseIGMP (snocpiquarity)Yes• IGMP (snocpiquarity)Yes• IGM - higher level adiagnationcation designationYesproduct function / diagnosticsYesproduct function / diagnosticsYesproduct function / diagnosticsYes• statistics Packet SizeYes• statistics packet SizeYes• error statisticsYes• statistics packet SizeYes• statistics packet SizeYes• statistics packet SizeYes• SystagYes• SystagYes• CULAN - probaceb-basedNo• ULAN - probaceb-basedNo <td>• SNMP v1</td> <td>Yes</td>	• SNMP v1	Yes
- iGAP (anopping/querier) Yes identification & maintenance function Yes - iGAD - descense function information Yes - protect function / information Yes - end tidepositics Yes - function / LAN - dynaminum 257 - number of VLANs - dynaminum 257 - enduct function Yes - DHCP Server Yes - DHCP Option R5 Yes - DHCP Option R5 Yes - DHCP Option R5 Yes <t< td=""><td>• SNMP v2</td><td>Yes</td></t<>	• SNMP v2	Yes
Identification & maintenance function Yes • I&MA - bipine funct designation Yes product functiona / diagnatics Yes product functiona / diagnatics Yes • statistics packet Size Yes • statistics packet Size Yes • statistics packet Size Yes • SysLog Yes product function ////////////////////////////////////	• SNMP v3	Yes
Identification & maintenance function Yes • IBM0 - device specific information Yes product function / Isage information product function / Isage information ord diagnostics Yes • astatistics Packet Size Yes • error statistics Yes • error statistics Yes • error statistics Yes • product function / VLAN • vLVAN - port based Yes • VLAN - port based Yes • VLAN - port based No • VLAN - protocol-based No • OHCP Opton 82 Yes • OHCP Opton 82 Yes	 IGMP (snooping/querier) 	Yes
• MMT - higher Kevel designation/location designation Yes product functions / diagnostics Yes • statistics Pocket Size Yes • statistics Pocket Size Yes • statistics Pocket Size Yes • error statistics Yes • statistics Pocket Size Yes • error statistics Yes product functions / VLAN Yes • VLAN - port based Yes • VLAN - port based No • VLAN - probace/based No • VLAN - probace/based No • ULAN - Polace/based No • ULAN - Probace/based No • ULAN - Polace/based No • ULAN - Polace/based No • DHCP Option 82 Yes • DHCP Option 83 Yes • DHCP Option 86 Yes • DHCP Option 87 <td></td> <td></td>		
• MMT - higher Kevel designation/location designation Yes product functions / diagnostics Yes • statistics Pocket Size Yes • statistics Pocket Size Yes • statistics Pocket Size Yes • error statistics Yes • statistics Pocket Size Yes • error statistics Yes product functions / VLAN Yes • VLAN - port based Yes • VLAN - port based No • VLAN - probace/based No • VLAN - probace/based No • ULAN - Polace/based No • ULAN - Probace/based No • ULAN - Polace/based No • ULAN - Polace/based No • DHCP Option 82 Yes • DHCP Option 83 Yes • DHCP Option 86 Yes • DHCP Option 87 <td> I&M0 - device-specific information </td> <td>Yes</td>	 I&M0 - device-specific information 	Yes
product functions / diagnosities Yes • port diagnosities Yes • statistics Packet Size Yes • attributes packet type Yes • entropic spacket type Yes • entropic space type Yes • entropic space type Yes • entropic space type Yes • VLAN - protocol-based No • VLAN - IP-based No • UNCH of MANs - dynamum 257 number of VLANs - dynamic / maximum 257 product function Product function • DHCP Option 82 Yes • DHCP Option 82 Yes • DHCP Option 75 Yes product function Yes • DHCP Option 75 Yes • DHCP Option 75	-	Yes
product function Yes • statistics Packet Size Yes • statistics Packet Size Yes • statistics Packet Size Yes • error statistics Yes • error statistics Yes • product functions YLAN • VLAN - part based Yes • VLAN - portocol-based No • VLAN - protocol-based No • Protocol-based No • Protocol-based No • protocol-based Yes product function 257 product function Yes • DHCP Option 62 Yes • DHCP Option 72 Yes product function Yes • media redundancy protocol (MRP) with redundancy Yes • of the PROFINET IO device / is supported / Hesync Yes		
statistics Packet Size statistics packet type ves statistics packet type ves veror statistics yes yes yeroduct function vLAN - port based ves vLAN - portbased ves vLAN - portbased No vLAN - portbased VLAN - portbased No vLAN - portbase ves	port diagnostics	Yes
• statistics packet type Yes • error statistics Yes product functions / VLAN product functions / VLAN Yes • VLAN - probabeed Yes • VLAN - probabeed No • VLAN - probabeed No number of VLANs / maximum 257 number of VLANs - dramatic / maximum 257 product function / HCP • DHCP option 86 Yes • DHCP option 86 Yes • DHCP Option 86 Yes • DHCP Option 67 Yes product function / Yes • DHCP Option 67 Yes product function / Yes • DHCP Option 67 Yes product function / Yes • Order Doption 68 Yes • DHCP Option 67 Yes • Order Doption 61 Yes • Order DROFINET Yes • Order DROFINET ID device / is supported / PROFINET Yes • of the PROFINET ID device / is supported / PROFINET Yes • redundan	· · ·	Yes
error statistics Yes Systag Systag Systag Systag roduct functions / VLAN product function VLAN - port based Yes VLAN - port based Yes VLAN - portocol-based No VLAN - portocol-based No VLAN - protocol-based No DHCP Option S/ Del/P Product function DHCP Option 86 Yes DHCP Option 86 Yes DHCP Option 86 Yes DHCP Option 82 UNCH Option 87 Other Protocol / Ms supported / Media Redundancy Protocol (MRP) Yes manager in dela redundancy protocol (MRP) With redundarcy redundancy Protocol (MRP) With redundarcy redundancy redundancy redundancy protocol (HRP) with redundarcy redundancy redundancy redundancy protocol (HRP) with redundarcy redundancy redundancy protocol (HRP) with redundarcy redundancy redundancy protocol (HRP) with redundarcy redundancy protocol (HRP) with redundarcy redundancy protocol (HRP) with standby redundancy protocol (HRP) with stan		
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product function Yes • VLAN - port based Yes • VLAN - protocol-based No • VLAN - IP-based No number of VLANS - dynamic / maximum 257 product functions 7 Product function 257 product function Yes • DHCP Desiver Yes • DHCP Option 82 Yes • DHCP Option 66 Yes product function Yes • DHCP Option 67 Yes product function Yes • DHCP Option 67 Yes product function Yes • other PROFINET IO device / is supported / HSync Yes • other PROFINET IO device / is supported / PROFINET Yes • redundancy protocol (HRP) with redundancy Yes • ning redundancy Yes • ning redundancy protocol (HRP) with redundancy Yes • ning redundancy protocol (HRP) with standby Yes • ning head redundancy protocol (HRP) with standby Yes • ning redundancy protocol (HRP) with standby Yes • redundancy protocol (HRP) with standby <t< td=""><td></td><td></td></t<>		
• VLAN - protocol-based Yes • VLAN - protocol-based No • VLAN - Inprotocol-based No number of VLANs / maximum 257 number of VLANs / at ning redundancy (HRP; MRP; standby 257 product functions / DHCP Product functions / DHCP product function Yes • DHCP client Yes • DHCP Option 62 Yes • DHCP Option 67 Yes • DHCP Option 67 Yes product functions / redundancy Yes • DHCP Option 67 Yes protocol / Is supported / Media Redundancy Protocol (MRP) Yes protocol / Is supported / Media Redundancy Protocol (MRP) Yes protocol / Is supported / Media Redundancy Protocol (MRP) Yes manager • Media Redundancy Protocol (MRP) Yes ing redundancy protocol (MRP) with redundancy Yes • media redundancy Protocol (MRP) Yes • of the PROFINET TO device / is supported / PROFINET Yes system redundancy Yes • ning redundancy protocol (HRP) with redundancy Yes • ning redundancy protocol (HRP) with standby Yes • high speed redundancy protocol (HRP) with standby Yes • redundancy procedure RSTP Yes • redundancy proce		
• VLAN - protocol-based No • VLAN - IP-based No number of VLANs / maximum 257 number of VLANs / at ring redundancy (HRP; MRP; standby link) 257 product functions 257 product functions 257 product functions 257 • DHCP Disorer Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Protocol (MRP-I) Yes • Media Redundancy protocol Interconnection (MRP-I) Yes • of the PROFINET IO device / is supported / PROFINET Yes • rig redundancy Yes • of the PROFINET IO device / is supported / PROFINET Yes • rig redundancy Yes • high speed redundancy protocol (HRP) with redundancy Yes • high speed redundancy protocol (HRP) with redundancy Yes • high speed redundancy protocol (HRP) with redundancy Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes	•	Yes
• VLAN - IP-based No number of VLANs - dynamic / maximum 257 product functions / DHCP 257 product functions Ves • DHCP Server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / rodundancy Yes product functions / rodundancy Yes product functions / rodundancy Protocol (MRP) Yes product function Yes endia redundancy protocol (MRP) with redundancy Yes manager Yes • Media Redundancy Protocol (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync Yes forwarding Yes • high speed redundancy protocol (HRP) with redundancy Yes • high speed redundancy protocol (HRP) with standby Yes redundancy procedure STP Yes • edundancy procedure STP		
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number of VLANs / at ring redundancy (HRP; MRP; standby link) 257 product functions / DHCP Product functions / DHCP product function Yes • DHCP option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Protocol (MRP) Yes product functions / redundancy protocol (MRP) with redundancy Yes • media redundancy protocol (MRP) with redundancy Yes • of the PROFINET IO device / is supported / H-Sync Yes • of the PROFINET IO device / is supported / PROFINET Yes • ring redundancy Yes • nigh speed redundancy protocol (HRP) with redundancy Yes • nigh speed redundancy protocol (HRP) with redundancy Yes • nigh speed redundancy protocol (HRP) with redundancy Yes • edundancy procedure RSTP Yes • redundancy procedure RSTP Yes • edundancy procedure RSTP+ Yes • edundancy procedure RSTP Yes • edundancy procedure RSTP Yes • PRP-network Yes • Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes		
link) product functions / DHCP product function DHCP Server DHCP Client Product function DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Product functions / redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function manager Media Redundancy protocol (MRP) With redundancy reanager of the PROFINET IO device / is supported / PROFINET system redundancy of the PROFINET IO device / is supported / PROFINET system redundancy ing redundancy ing redundancy Fres Dight speed redundancy protocol (HRP) with redundancy redundancy e redundancy protocol (HRP) with redundancy fres Dight speed redundancy protocol (HRP) with standby redundancy e redundancy protocol (HRP) with standby redundancy ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (PRP)/iperation in the PRP-retwork ing r	•	
product function Ves • DHCP server Yes • DHCP Option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes product functions / redundancy Yes product function Yes product function Yes product function Yes endia redundancy protocol (MRP) with redundancy Yes maager Media Redundancy Protocol (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync Yes forwarding • of the PROFINET IO device / is supported / PROFINET Yes • of the PROFINET IO device / is supported / PROFINET Yes • of the PROFINET IO device / is supported / PROFINET Yes • nigh speed redundancy protocol (HRP) with redundancy Yes • nigh speed redundancy protocol (HRP) with redundancy Yes • nigh speed redundancy protocol (HRP) with standby Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure MSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy protocol (PRP)/speration in t		
• DHCP serverYes• DHCP Option 82Yes• DHCP Option 68Yes• DHCP Option 67Yesproduct functions / redundancy Protocol (MRP)Yesproduct functionYes• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-II)Yes• of the PROFINET IO device / is supported / H-SyncYes• of the PROFINET IO device / is supported / PROFINETYes• system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy procedure RSTPYes• redundancy protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/peration in the PRP-networkYes• passive listeningYes	product functions / DHCP	
• DHCP clientYes• DHCP Option 82Yes• DHCP Option 67Yes• DHCP Option 67Yesproduct functions / redundancyYesproduct function*• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ing redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure RSTPYes• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure RSTP • fulgh exailability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/predundant Network Access (RNA)Yes• passive listeningYes	product function	
• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67Yesproduct functions / redundancyYesproduct functions / redundancy Protocol (MRP)Yesproduct function*• media redundancy protocol (MRP) with redundancyYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-SyncYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• ning redundancyYes• ning redundancyYes• ning redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTP+Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	DHCP server	Yes
• DHCP Option 86Yes• DHCP Option 67Yesproduct functions / redundancyproduct functionYesproduct functionYes• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy mendancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+ redundancy procedure RSTP+ YesYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	DHCP client	Yes
• DHCP Option 67Yesproduct functions / redundancyproduct functionYesproduct function• Media redundancy protocol (MRP) with redundancy managerYes• Media redundancy protocol Interconnection (MRP-I)Yes• Of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy medundancyYes• high speed redundancy protocol (HRP) with standby redundancy procedure STPYes• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure RSTP • Fealtel Redundancy protocol (PRP)/seration in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes	DHCP Option 82	Yes
product functions / redundancy Yes product function Yes product function Yes • media redundancy protocol (MRP) with redundancy manager Yes • Media Redundancy Protocol Interconnection (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync forwarding Yes • of the PROFINET IO device / is supported / PROFINET system redundancy Yes • nigh speed redundancy protocol (HRP) with redundancy manager Yes • high speed redundancy protocol (HRP) with standby redundancy Yes • high speed redundancy protocol (HRP) with standby redundancy procedure STP Yes • redundancy procedure RSTP+ Yes • redundancy procedure RSTP+ Yes • redundancy procedure MSTP Yes • High-availability Seamless Redundancy (HSR) Yes • Parallel Redundancy Protocol (PRP)/peration in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) Yes	DHCP Option 66	Yes
protocol / is supported / Media Redundancy Protocol (MRP) Yes product function • media redundancy protocol (MRP) with redundancy manager Yes • Media Redundancy Protocol Interconnection (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync forwarding Yes • of the PROFINET IO device / is supported / PROFINET system redundancy Yes • ring redundancy Yes • high speed redundancy protocol (HRP) with redundancy manager Yes • high speed redundancy protocol (HRP) with standby redundancy Yes • redundancy procedure STP Yes • redundancy procedure RSTP Yes • Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) Yes • passive listening Yes	DHCP Option 67	Yes
product function• media redundancy protocol (MRP) with redundancy manager• Media Redundancy Protocol Interconnection (MRP-I)• of the PROFINET IO device / is supported / H-Sync forwarding• of the PROFINET IO device / is supported / PROFINET system redundancy• of the PROFINET IO device / is supported / PROFINET system redundancy• high speed redundancy protocol (HRP) with redundancy manager• high speed redundancy protocol (HRP) with redundancy manager• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STP• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP• High-availability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/peration in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening• passive listeningYes	product functions / redundancy	
• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+ • redundancy procedure RSTP+ • redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	product function	
• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure RSTPYes• redundancy protocol (PRP)/peration in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		Yes
forwarding• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	 Media Redundancy Protocol Interconnection (MRP-I) 	Yes
system redundancyYes• ring redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STPYes• redundancy procedure STPYes• redundancy procedure RSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		Yes
high speed redundancy protocol (HRP) with redundancy managerYeshigh speed redundancy protocol (HRP) with standby redundancyYeseredundancy procedure STPYeseredundancy procedure RSTPYeseredundancy procedure RSTP+Yeseredundancy procedure MSTPYeseredundancy protocol (PRP)/operation in the PRP-networkYeseredundancy Protocol (PRP)/Redundant Network Access (RNA)Yesepassive listeningYes		Yes
manager• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• redundancy procedure MSTPYes• high-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	 ring redundancy 	Yes
redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	manager	
• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	redundancy	
• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		
• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		
• High-availability Seamless Redundancy (HSR) Yes • Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/Redundant Network Yes • passive listening Yes		Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening Yes 	 redundancy procedure MSTP 	Yes
PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Yes • passive listening Yes		Yes
Access (RNA)		Yes
		Yes
protocol / is supported	· · · · · · · · · · · · · · · · · · ·	Yes
	protocol / is supported	



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• STP/RSTP	Yes		
• STP	Yes		
• RSTP	Yes		
• MSTP	No		
RSTP big network support	Yes		
• LACP	Yes		
system modification during operation			
product function / configuration in RUN via CiR/H-CiR	Yes		
product functions / security			
product function			
IEEE 802.1x (radius)	Yes		
broadcast/multicast/unicast limiter	Yes		
broadcast blocking	Yes		
protocol / is supported			
• SSH	Yes		
• SSL	Yes		
product functions / time			
product function			
SICLOCK support	Yes		
NTP-client	Yes		
SNTP client	Yes		
IEEE 1588 v2 transparent forwarding	Yes		
protocol / is supported			
• NTP	Yes		
• SNTP	Yes		
IEEE 1588 profile default	No		
accuracy / at IEEE 1588 v2			
 not less than 	100 µs		
• typical	50 ns		
standards, specifications, approvals			
certificate of suitability			
-			
• CE marking	Yes		
CE marking UKCA marking	Yes		
CE marking UKCA marking cULus approval	Yes Yes		
 CE marking UKCA marking cULus approval KC approval 	Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) 	Yes Yes Yes		
CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline	Yes Yes Yes		
CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard	Yes Yes Yes 2014/30/EU		
CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4		
CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC	Yes Yes Yes 2014/30/EU		
CE marking UKCA marking cULus approval KC approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4		
CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX 	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Description	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product De Environmental Product Declaration	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product DD Environmental Product Declaration Global Warming Potential [CO2 eq]	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 CE marking UKCA marking cULus approval KC approval Regulatory Compliance Mark (RCM) product conformity / according to EMC-guideline standard for EMC interference emission for immunity to EMC standards, specifications, approvals / hazardous environments certificate of suitability ATEX UKEX IECEx ULhazloc approval CCC / for hazardous zone according to GB standard FM registration standards, specifications, approvals / other T security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life 	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		



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reference temperature / for MTBF determination	_	40 °C				
reference code						
 according to IEC 81346-2 	KF					
 according to IEC 81346-2:2019 			KFE			
Warranty period		5a				
further information / internet links						
internet link						
• to website: Selection guide for cables and	connectors https		https://support.industry.siemens.com/cs/ww/en/view/109766358			
 to web page: selection aid TIA Selection To 		https://www.siemens.com/tstcloud				
 to website: Industrial communication 		https://www.siemens.com/simatic-net				
• to web page: SiePortal		https://sieportal.siemens.com/				
• to website: Image database			www.automation.sieme			
 to website: CAx-Download-Manager 			www.siemens.com/cax			
 to website: Industry Online Support 			support.industry.siemer	is com		
security information		<u>mpo.m</u>	support.industry.siemer	10.00m		
Approvals / Certificates General Product Approval		that sup In orde threats state-or solution for prev- network to an einecess network cyberse www.si underg recommand that no long custom subscrit	port the secure operat r to protect plants, syste , it is necessary to imple f-the-art industrial cyber as constitute one eleme venting unauthorized ac ks. Such systems, mach nterprise network or the ary and only when apple k segmentation) are in p ecurity measures that m emens.com/cybersecu nends that product upd it the latest product vers er supported, and failui er's exposure to cyber	ion of plants, systems, r ems, machines and netw ement – and continuous rsecurity concept. Sieme int of such a concept. Cu ccess to their plants, sys hines and components s a internet if and to the ex- ropriate security measur place. For additional infor any be implemented, ple rity-industry. Siemens' p rent to make them more ates are applied as soor sions are used. Use of p re to apply the latest up threats. To stay informe ustrial Cybersecurity RSS	ly maintain – a holistic, ens' products and ustomers are responsible tems, machines and should only be connected dent such a connection is res (e.g. firewalls and/or ormation on industrial ease visit roducts and solutions secure. Siemens strongly n as they are available product versions that are dates may increase d about product updates,	
EG-Konf. Declaration of Con- formity	Radio Equipme	ent	UK CA	RCM	Industrial Commu-	
For use in hazardous locations	Type Approval Certi- ficate		Test Certificates	Environment	nication	
IECEX ATEX	<u>KC</u>		Type Test Certific- ates/Test Report	EPD	PROFINET	
last modified:	9/3/2024 🕑					



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