SIEMENS

Data sheet

6GK5216-4GS00-2TC2



SCALANCE XC216-4C G (E/IP) manageable Layer 2 IE switch; IEC 62443-4-2 certified; full Gigabit; 12x 10/100/1000 Mbps RJ45 ports; 4x 1000 Mbps combo ports (either 1000 Mbps/ SFPs or 10/100/1000 Mbps RJ45 ports can be used); 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall; redundancy functions; Office features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot; default EtherNet/IP; IEEE 1588v2 PTP

product type designation	SCALANCE XC216-4C G (E/IP def.)
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / maximum configuration for more	dular devices
number of electrical ports / maximum	16
number of optical ports / maximum	4
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	16; RJ45
number of 10/100/1000 Mbit/s RJ45 ports / integrated	16
number of combo ports / with RJ45 interface for optical plug-in transceiver	4; 1000 MBit/s SFPs
interfaces / for communication / plug-in	
number of electrical connections	
• for SFP	4; 1000 Mbit/s SFP plug-in transceiver or 100 Mbit/s via SCALANCE SFP991-1(LD) A
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 	RJ11
 for signaling contact 	2-pole terminal block
 for power supply 	3-pole terminal block, permanently installed
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
• at DC / rated value	24 V
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
 power loss [W] / 1 / rated value 	13.2 W
 consumed current / 1 / at rated supply voltage / maximum 	0.55 A
 supply voltage / 1 / rated value 	9.6 31.2 V
• type of electrical connection / 1 / for power supply	3-pole terminal block, permanently installed
 product component / 1 / fusing at power supply input 	Yes
• fuse protection type / 1 / at input for supply voltage	3.15 A / 125 V

ambient conditions	
ambient temperature	
during operation	-40 +70 °C
during storage	-40 +85 °C
during storage during transport	-40 +85 °C
relative humidity	
 at 25 °C / without condensation / during operation / 	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	compact
width	140 mm
height	150 mm
depth	125 mm
net weight	1.2 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	
 35 mm top hat DIN rail mounting 	Yes
wall mounting	No
S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
product features, product functions, product components / 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)
product function / QoS according to DSCP	Yes
product feature	
 Cut Through switching method 	No
 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	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	10240 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• BOOTP	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
EtherNet/IP	Yes
SNMP v1	Yes
• SNMP V1	Yes
• SNMP V2 • SNMP V3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	

		N
product functions / diagnostics product functions = exit dialognostics = exit dialogn	I&M0 - device-specific information	Yes
product function visit • out disposition Yes • editistics packet Size Yes • end dististics packet Size Yes • end dististics Yes • end dististics Yes • end dististics Yes • end dististics Yes product function Yes • VLA - Protocol-based No • Protocol-bactoro Yes product function Yes • HCP Option S Yes • HCP Option S Yes • HCP Option S Yes • Ingle Specer Redundancy Protocol (HPP) Yes •		Yes
Port disposition Product Functions		
 statistic Packet Stop visitistic packet type visitistic statistic visitistic statistic statistic visitistic statistic statistatis statistic statistic statistic statistic statistic statist	•	
 stabilities packet type verse stabilities stappedue stappedue VEAN product functions / VEAN product functions / VEAN verse VEAN product function Product func	· · ·	
SysLog Yes product function - - VLAN - poit based Yes - VLAN - poit based No - VLAN - protocol-based No - VLAN - protocol-based No - VLAN - protocol-based No - number of VLANs - dynamic / maximum 257 number of VLANs - dynamic / maximum 257 protocol / supported / GVRP Yes protocol / supported / GVRP Yes protocol / supported / GVRP Yes - OHCP Descret Yes - OHCP Descret Yes - OHCP Option 85 Yes - OHCP Option 86 Yes - OHCP Option 86 Yes - OHCP Option 87 Yes - OHCP Option 86 Yes - OHCP Option 87 Yes - OHCP Option 87 Yes - OHCP Option 87 Yes - OHCP Option 88 Yes - OHCP Option 80 Yes - OHCP Option 81 Yes - Intel Speed redundancy brotocol (HRP) Yes		
product functions / VLAN product functions •VLAN - port based No •VLAN - protocol-based No •VLPC - Option 60 257 product function / DHCP Yes • DHCP Option 62 Yes • DHCP Option 63 Yes product function / redundancy Yes • Inign Seed Redundancy protocol (HRP) Yes • High Speed Redundancy protocol (HRP) Yes • High Speed Redundancy protocol (HRP) Yes • Inign Seed Redundancy protocol (HRP) Yes • Inign Seed Redundancy protocol (HRP) Yes • Inign Seed R		
product function • VLAN - protocobased No • VLAN - protocobased No • VLAN - protocobased No • VLAN - protocobased No • VLAN - protocobased No • ULAN - protocobased No • VLAN - protocobased No • unther of VLANs - dynamic / maximum 257 - - • muther of VLANs - dynamic / maximum 257 - - protocol / is supported / CVPP Yes - - protocol / is supported / CVPP Yes - - protocol / is supported / CVPP Yes - - protocol / in supported / CVPP Yes - - • DHCP Option 63 Yes - - - product functions / redundancy Yes - <t< td=""><td></td><td>Yes</td></t<>		Yes
• VLAN - protocol-based No • VLAN - protocol vlasuported / VLAP 257 • Unumber of VLANs / at ring redundancy (HRP, MRP, standby ink). 257 • product function / DHCP Yes • DHCP claint Yes • DHCP Option 82 Yes • DHCP Option 67 Yes • DHCP Option 68 Yes • DHCP Option 69 Yes • DHCP Option 69 Yes • DHCP Option 60 Yes • High Speed Redundancy Protocol (HRP) Yes • High Speed Redundancy Protocol (HRP) Yes • Inigring speed redundancy Protocol (HRP) Yes • Inigring speed redundancy Protocol (HRP) with redundancy Yes • Inigring speed redundancy Protocol (HRP) Yes • Inigring redundancy Protocol (MRP) with redundancy Yes		
• VLAN - protocol-based No • VULAN : Pbased No • number of VLAS + maximum 257 • number of VLAS + dynamic / maximum 257 • number of VLAS + dynamic / maximum 257 product function / DHCP Yes product function / DHCP Yes product function / DHCP Yes • DHCP option 82 Yes • DHCP option 83 Yes • DHCP option 83 Yes • DHCP option 70 Yes • OHCP Option 84 Yes • of the PPOINT 10 device / is supported / PROFINET Yes • night Speed Redundancy protocol (HRP) Yes • high Speed Redundancy protocol (HRP) with redundarcy Yes • high Speed Redundancy protocol (HRP) with standby Yes • high Speed Redundancy protocol (HRP) with standby Yes • high Speed Redundancy protocol (HRP) with redundarcy Yes • redundarcy Yes • redundarcy protocol (HRP) with redundarcy Yes • redundarcy protocol (HRP) with standby Yes • redundarcy protocol (HRP) with standby Yes	•	
• VLAN - IP-Assed No number of VLANs / maximum 257 number of VLANs / at ing redundancy (HRP; MRP; standby ink) 257 protocol / is supported / GVRP Yes protocol / is supported / GVRP Yes protocol / is supported / GVRP Yes • DHCP server Yes • DHCP client Yes • DHCP client / redundancy Yes • India Redundancy protocol (HRP) Yes • High speed redundancy protocol (HRP) with redundancy Yes prodocol / is supported / Media Redundancy Protocol (MR		
number of VLANs / maximum 257 number of VLANs - dynamic / maximum 257 number of VLANs - dynamic / maximum 257 ink) 257 product functions / DROP Yes product functions / DROP Yes DROP Option 82 Yes DROP Option 83 Yes DROP Option 67 Yes product functions / indumdancy Yes of the PROFINET IO device / is supported / PROFINET Yes system redundancy Yes ing redundancy protocol (HRP) Yes inght speed redundancy protocol (HRP) with redundancy Yes inght speed redundancy protocol (MRP) Yes product function *edial redundancy protocol (MRP) Yes inght speed redundancy protocol (MRP) with redundancy Yes product function *edial redundancy protocol (MRP) with redundancy inght speed redundanc		
number of VLANs - dynamic / maximum 257 number of VLANs - dynamic / maximum 257 ink) 257 protocol / is supported / GVRP Yes Poduct function - • DHCP server Yes • DHCP Cleftert Yes • DHCP Option 82 Yes • DHCP Option 67 Yes • of the PROFINET 10 device / is supported / PROFINET Yes • ring redundancy Yes • ring redundancy Protocol (HRP) with standby Yes • High Speed redundancy protocol (MRP) with redundancy Yes • redundancy Protocol (MRP) with redundancy Yes • of the		
number of VLANs / at nig redundancy (HRP; MRP; standby 257 ink) protocol / is supported / GVRP Yes protocol / is supported / GVRP Yes protocol / is supported / GVRP Yes DHCP Server Yes DHCP Option 82 Yes DHCP Option 82 Yes DHCP Option 66 Yes DHCP Option 67 Yes product functions / rodundancy Yes product functions / rodundancy Yes ining rodundancy protocol (HRP) with redundancy Yes inding rodundancy protocol (MRP) with redundancy Yes inding rodundancy protocol (MRP) with redundancy Yes inding rodundancy protocol (MRP) Yes protocol / is supported / Helia Redundancy motocol (MRP-I) Yes inding rodundancy protocol (MRP) with redundancy Yes inding rodundancy protocol (MRP) Yes Yes <td< td=""><td></td><td></td></td<>		
Ink) Ves product functions / DHCP Yes product function - 0. DHCP Server Yes 0. DHCP Server Yes 0. DHCP Option 82 Yes 0. DHCP Option 66 Yes 0. DHCP Option 67 Yes product function - • of the PROFINET IO device / is supported / PROFINET Yes ystem redundancy Yes • high speed redundancy protocol (HRP) Yes • high speed redundancy protocol (HRP) Yes redundancy Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes redundancy Yes redundancy Yes redundancy Yes redundancy Yes redundancy protocol (MRP) with redundancy Yes redundancy protocol (MRP) with redundancy Yes redundancy prococul / HSpuported / H-Synce Yes redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes	· · · · · · · · · · · · · · · · · · ·	
protocol / is supported / GVRP Yes product functions / DHCP ////////////////////////////////////		257
product functions / DHCP product functions 0_HCP Server Yes 0_HCP Option 82 Yes 0_HCP Option 66 Yes 0_HCP Option 67 Yes product functions / redundancy Yes product functions / redundancy Yes product functions / redundancy Yes • high speed redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy Yes • high speed redundancy protocol (HRP) with standby Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes or of the PROFINET 10 device / is supported / HSync Yes or of the PROFINET 10 device / is supported / HSync Yes • of the PROFINET 10 device / is supported / HSync Yes • redundancy procedure RSTP Yes • parable Redundancy Protocol (PRP)/operation in the	· · · · · · · · · · · · · · · · · · ·	Yes
product function Yes DHCP server Yes DHCP Cellent Yes DHCP Option 82 Yes DHCP Option 66 Yes Droduct functions / redundancy Yes product functions / redundancy Yes 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 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 of the PROFINET IO device / is supported / PROFINET Yes ordunt function Yes ordunt function Yes ordunt function Yes ordunt function Yes ordundancy procedul re RSTP Yes ordundancy procedure RSTP Yes ordundancy proto		
DHCP server DHCP client Yes DHCP Option 82 DHCP Option 86 Yes DHCP Option 87 Yes DHCP Option 67 Yes product functions ind the PROFINET IO device / is supported / PROFINET system redundancy ing redundancy ing redundancy ing redundancy protocol (HRP) Yes ing his speed redundancy protocol (HRP) Yes ing his speed redundancy protocol (HRP) Yes ing his speed redundancy protocol (MRP) Yes redundancy redundancy rotocol / is supported / Nedia Redundancy Protocol (MRP) Yes redundancy redundancy rotocol / is supported / Nedia Redundancy Protocol (MRP) Yes redundancy rotocol / is supported / Nedia Redundancy Protocol (MRP) Yes redundancy protocol (MRP) With redundancy redundancy protocol (MRP) Wes rotocol / is supported / Nedia Redundancy Protocol (MRP-I) Yes redundancy protocol (MRP) Yes redundancy protocol (MRP) Yes rotocol (September / SETP Yes redundancy protocol (MRP) Yes redundancy protocol (MRP) Yes redundancy protocol (MRP) Yes rotocol (September / SETP Yes redundancy protocol (PRP)(September / Yes rotocol (September / SETP Yes redundancy protocol (PRP)(September / Yes rotocol (September / Yes ro		
• DHCP clientYes• DHCP Option 62Yes• DHCP Option 67Yesproduct functions / rotundancyYesproduct functions/ Yesof the PROFINET IO device / is supported / PROFINET system redundancyYes• high speed redundancy protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• not redundancy protocol (HRP) with standby redundancyYesprotocol / is supported / Media Redundancy Protocol (MRP)Yesprotocol / is supported / Media Redundancy Protocol (MRP)YesmanagerMedia Redundancy protocol (MRP)Yes• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy protocol (MRP)Yes• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy protocol (MRP) with redundancy managerYes• media redundancy procedure STPYes• redundancy procedure STPYes• redundancy procedure MSTPYes• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)NoAccess (RNA)Yes• Drotocol functions / securityYes• protocol / is supportedYes• Drotocol functionsYes• Drotocol functionsYes• protocol / is supportedYes• Drotocol functionsYes• Drotocol functionsYes•	•	Yes
• DHCP Option 82Yes• DHCP Option 66Yesproduct functions / redundancyproduct functions / redundancy / redundancyYes• of the PROFINET 10 device / is supported / PROFINETYes• ring redundancyYes• ring 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)Yes• media redundancy protocol (MRP) with redundancy managerYes• media Redundancy Protocol (MRP)Yes• endundancy procedure STPYes• redundancy procedure STPYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTPYes• redundancy procedure RSTPYes• redundancy procedure RSTPYes• redundancy protocol (PRP)/geration in the PRP-networkYes• protocol / is supportedYes• redundancy proceol (PRP)/Redundant Network Access (RNA)No• cases / RNA)Yes• protocol / is supportedYes• broadcast blockingYes• broadcast blockingYes• broadcast blo		
DHCP Option 68 Yes DHCP Option 67 Yes product functions / rodundancy roduct functions / rodundancy of the PROFINET 10 device / is supported / PROFINET yes yes ing redundancy ing redundancy ing redundancy protocol (HRP) Yes high Speed redundancy protocol (HRP) Yes high speed redundancy protocol (HRP) Yes ing supported / Media Redundancy Protocol (MRP) Yes redundancy roduct function india redundancy protocol (MRP) With redundancy redundancy protocol (MRP) With redundancy redundancy roduct function india redundancy protocol (MRP) Yes redundancy protocol IMRP) Yes india redundancy protocol IMRP) Yes india redundancy protocol IMRP) With redundancy manage india redundancy protocol IMRP) Yes india redundancy protocol IMRP) Yes india redundancy protocol IMRP) With redundancy manage india redundancy Protocol IMRP) Yes india redundancy protocol IMRP) Yes india redundancy Protocol IMRP-II) Yes india redundancy Protocol IMRP-III Yes india redundancy Protocol (PRP)/Redundant Yes india redundancy Protocol (PRP)/Redundant Network indications / socurity protocol / is supported inter inter Yes india redundancy Protocol (PRP)/Redundant Network indications / socurity protocol I/ is supported inter Yes indications / socurity indicati		
- DHCP Option 67 Yes product functions / redundancy product functions · of the PROFINET 10 device / is supported / PROFINET system redundancy · in (in redundancy redundancy · in (in redundancy redundancy redundancy redundancy rotocol (INRP) with redundancy redundancy protocol (INRP) (Yes redundancy protocol (INRP)) redundancy protocol (INRP) redundancy procedure RSTP redundancy protocol (PRP)/poeration in the PRP-network · edundancy Protocol (PRP)/Redundant Network Access (RNA) · passive listening reduct function · inCP reduct function · inCode (PRP)/Redundant Network · inode (PRP)/Redu		
product functions indication in the PROFINET ID device / is supported / PROFINET system redundancy Yes • of the PROFINET ID device / is supported / PROFINET system redundancy Yes • ing redundancy Yes • ing redundancy Yes • high speed redundancy protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy redundancy Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Protocol (MRP-) Yes media redundancy protocol (MRP) with redundancy maager Yes • media redundancy protocol (MRP-) Yes • edundancy procedure INSTP Yes • edundancy procedure RSTP Yes • edundancy procedure RSTP Yes • edundancy procedure RSTP Yes • PRP-Retwork Protocol (PRP)/Protocol (PRP)/Operation in the P		
product function • of the PROFINET IO device / is supported / PROFINET Yes • system redundancy Yes • ligh Speed Redundancy Protocol (HRP) Yes • ligh Speed redundancy protocol (HRP) with redundancy manager Yes • ligh speed redundancy protocol (HRP) with standby redundancy Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Yes • Media Redundancy protocol (MRP) with redundancy Yes • Media Redundancy protocol (MRP) Yes • edundancy procedure (MSTP Yes • redundancy procedure RSTP Yes • edundancy procedure RSTP Yes • Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/peration in the PRP-network Yes • parallel Redundancy Protocol (PRP)/Redundant Network No • Acces (RNA) Yes • protocol / is supported Yes protocol / is suported Yes • LACP		
• of the PROFINET IO device / is supported / PROFINET Yes • nigr 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 • media redundancy protocol (MRP) with redundancy manager Yes • Media Redundancy protocol (MRP) with redundancy manager Yes • Media Redundancy protocol (MRP-i) Yes • of the PROFINET IO device / is supported / H-Sync forwarding Yes • edundancy procedure RSTP Yes • redundancy procedure RSTP Yes • Parallel Redundancy Protocol (PRP)/speration in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) No • LACP Yes product function Yes • EEE 802.1x (radius) Yes • product function Yes • Droadcast/multicast/unicast limiter Yes • broadcast blocking Yes • product flored Yes		
system redundancy Yes • inig redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy Yes manager • high speed redundancy protocol (HRP) with standby Yes redundancy protocol / Is supported / Media Redundancy Protocol (MRP) Yes protocol / is supported / Media Redundancy Protocol (MRP) Yes manager • media redundancy protocol (MRP) with redundancy Yes manager • Media Redundancy Protocol (MRP-I) Yes • Media Redundancy Protocol Interconnection (MRP-I) Yes • Media Redundancy Protocol (PRP) Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • Realiel Redundancy Protocol (PRP)/operation in the PRP-network • Paraliel Redundancy Protocol (PRP)/Redundant Network Access (RNA) Yes • protocol (is supported • LACP Yes protocol function • EEEE 802.1x (radius) Yes • broadcast/multicast/mitter Yes • broadcast/mitter Yes • broadcast/multicast/mitter Yes • broadcast/multicast/mitter Yes • broadcast/mit		Yes
• High Speed Redundancy Protocol (HRP)Yes• high speed redundancy protocol (HRP) with redundancy redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYesprotocol (is supported / Media Redundancy Protocol (MRP)Yesprotocol (is supported / Media Redundancy Protocol (MRP)Yesor media redundancy protocol (MRP) with redundancy maragerYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy protocol (PRP)/Redundant Network Access (RNA)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• Aparallel Redundancy Protocol (PRP)/Redundant Network b passive listeningYes• protocol fis supportedYes• protocol fis supportedYes• LACPYes• protocol fis supportedYes• broadcast/multicast/unicast limiterYes• SSIYes• SSI <td></td> <td></td>		
• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYesprotocol / is supported / Media Redundancy Protocol (MRP)Yesproduct function• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy protocol (MRP) with redundancy managerYes• Media Redundancy Protocol (MRP) with redundancy managerYes• of the PROFINET IO device / is supported / H-Sync forwardingYes• redundancy procedure STPYes• redundancy procedure RSTPYes• Parallel Redundancy Protocol (PRP)/peration in the PRP-networkYes• Darallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• Darallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• Darallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yesproduct function• LACPYesproduct function• EIEE 802.1x (radius)Yes• broadcast/multicast/unicast limiterYes• broadcast/multicast/unicast limiterYes• broadcast/multicast/unicast limiterYes• SSHYes <tr <td=""></tr>	 ring redundancy 	Yes
mañager Ves • high speed redundancy protocol (HRP) with standby redundancy Yes product function Yes • media redundancy protocol (MRP) Yes marager • media redundancy protocol (MRP) with redundancy marager Yes • Media Redundancy Protocol Interconnection (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync forwarding 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 No Access (RNA) Yes • passive listening Yes product function Yes • product function Yes • LACP Yes • broadcast/multicast/unicast limiter Yes • broadcast/multic	 High Speed Redundancy Protocol (HRP) 	Yes
redundancy protocol / is supported / Media Redundancy Protocol (MRP) Yes product function • media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) Yes • of the PROFINET IO device / is supported / H-Sync forwarding • redundancy procedure STP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP Yes • redundancy procedure MSTP Yes • parallel Redundancy Protocol (PRP)/peration in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening Yes protocol / is supported • LACP Yes • product function • IEEE 802.1x (radius) Yes • broadcast blocking Yes protocol / is supported • SSH Yes • SSL Yes		Yes
product function ves media redundancy protocol (MRP) with redundancy Yes manager Media Redundancy Protocol Interconnection (MRP-I) Yes of the PROFINET IO device / is supported / H-Sync Yes forwarding Yes eredundancy procedure STP Yes eredundancy procedure RSTP Yes eredundancy procedure RSTP Yes eredundancy procedure MSTP Yes Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes eparallel Redundancy Protocol (PRP)/Redundant Network No Access (RNA) Yes product functions / security Yes product function Yes iEEE 802.1x (radius) Yes broadcast blocking Yes protocol / is supported Yes ebroadcast blocking Yes protocol / is supported SSH e SSH Yes		Yes
 media redundancy protocol (MRP) with redundancy manager Media Redundancy Protocol Interconnection (MRP-I) Yes of the PROFINET IO device / is supported / H-Sync forwarding redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure RSTP+ Yes redundancy procedure MSTP Yes redundancy protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening Yes product functions / security product function IEEE 802.1x (radius) Yes broadcast/uniticast/unitast limiter Yes protocol / is supported SSH SSL Yes 	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 Yes forwarding Yes eredundancy procedure STP Yes eredundancy procedure RSTP Yes Parallel Redundancy Protocol (PRP)/operation in the PRP-network No Access (RNA) Yes eparaliel Redundancy Protocol (PRP)/Redundant Network Access (RNA) No epassive listening Yes protocol / is supported Yes e_LACP Yes product function ////////////////////////////////////	product function	
• of the PROFINET IO device / is supported / H-Sync forwarding Yes • redundancy procedure STP Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP+ Yes • redundancy procedure RSTP Yes • redundancy procedure RSTP+ Yes • redundancy procedure MSTP Yes • Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) No • passive listening Yes • protocol / is supported • LACP Yes product functions Yes • broadcast/multicas/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • broadcast blocking Yes protocol / is supported Yes • broadcast blocking Yes		Yes
forwardingYes• redundancy procedure STPYes• redundancy procedure RSTP+Yes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• passive listeningYesprotocol / is supportedYes• LACPYesproduct functionYes• LEEE 802.1x (radius)Yes• broadcast/multicast/unicast limiterYes• broadcast blockingYesprotocol / is supportedYes• SSHYes* SSLYes	 Media Redundancy Protocol Interconnection (MRP-I) 	Yes
• 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)No• passive listeningYesprotocol / is supported • LACPYesproduct functions / securityYesproduct functionYes• broadcast/multicast/unicast limiterYes• broadcast blockingYesprotocol / is supported • SSHYesSSLYes		Yes
• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• passive listeningYes• passive listeningYesprotocol / is supported • LACPYesproduct functions / securityYesproduct functionYes• IEEE 802.1x (radius)Yes• broadcast/multicast/unicast limiterYes• broadcast blockingYesprotocol / is supported • SSHYesSSLYes	 redundancy procedure STP 	Yes
• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)No• passive listeningYesprotocol / is supported • LACPYesproduct functions / securityYesproduct functionYes• IEEE 802.1x (radius)Yes• broadcast/multicast/unicast limiterYes• broadcast blockingYesprotocol / is supported • SSHYes• SSHYes• SSLYes	 redundancy procedure RSTP 	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) Passive listening Yes protocol / is supported LACP Yes product functions / security product function IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking Yes protocol / is supported SSH SSL Yes	 redundancy procedure RSTP+ 	Yes
PRP-network No • Parallel Redundancy Protocol (PRP)/Redundant Network No Access (RNA) Yes • passive listening Yes protocol / is supported Yes • LACP Yes product functions / security Yes product function Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • SSH Yes • SSL Yes	 redundancy procedure MSTP 	Yes
Access (RNA)Yes• passive listeningYesprotocol / is supportedYes• LACPYesproduct functions / securityproduct functionYes• IEEE 802.1x (radius)Yes• broadcast/multicast/unicast limiterYes• broadcast blockingYesprotocol / is supportedYes• SSHYes• SSLYes		Yes
protocol / is supported Yes • LACP Yes product functions / security Yes product function Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • SSH Yes • SSL Yes		No
• LACP Yes product functions / security product function • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking Yes protocol / is supported • SSH Yes Yes	passive listening	Yes
product functions / security product function • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking Yes protocol / is supported • SSH • SSL Yes	protocol / is supported	
product function Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • SSH Yes • SSL Yes	• LACP	Yes
• IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • SSH Yes • SSL Yes	product functions / security	
• broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported Yes • SSH Yes • SSL Yes	product function	
• broadcast blocking Yes protocol / is supported • SSH Yes • SSL Yes	• IEEE 802.1x (radius)	Yes
protocol / is supported • SSH Yes • SSL Yes	 broadcast/multicast/unicast limiter 	Yes
SSH Yes SSL Yes	 broadcast blocking 	Yes
• SSL Yes	protocol / is supported	
		Yes
product functions / time		Yes
	product functions / time	

product function	
SICLOCK support	Yes
NTP-client	Yes
SNTP client	Yes
protocol / is supported	
NTP	Yes
• SNTP	Yes
IEEE 1588 profile default	Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
standards, specifications, approvals	
IT security for industrial automation systems / according to IEC	Yes
62443-4-2:2019	
MTBF	46 a
reference code	
according to IEC 81346-2	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
product conformity / according to EMC-guideline	2014/30/EU
standard	
 for EMC interference emission 	EN 61000-6-4, EN 50121-15
for immunity to EMC	EN 61000-6-2, EN 50121-4
certificate of suitability / RoHS conformity	Yes; 2011/65/EU
standards, specifications, approvals / hazardous environments	
certificate of suitability	
 CCC / for hazardous zone according to GB standard 	Yes
 CCC / for hazardous zone according to GB standard / as marking 	Ex nA IIC T4 Gc
accessories	
product extension / optional / C-PLUG	Yes
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
last modified:	6/28/2023 🖸