6GK5308-2GG10-2CA2

Data sheet



SCALANCE X308-2M TS; managed IE switch, compact; 4x 10/100/1000 Mbit/s for RJ45 ports electrical; 2x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; PROFINET IO device; network management; integrated redundancy manager; Office features (RSTP, VLAN, IGMP,...); C-plug in scope of delivery extended temperature range with railway approval EN 50155;

product type designation	SCALANCE X308-2M TS		
transfer rate			
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s		
interfaces / for communication / integrated			
number of electrical connections			
 for network components or terminal equipment 	4		
number of 10/100/1000 Mbit/s RJ45 ports / integrated			
with securing collar	4		
number of connectable media modules			
• with 2 ports	2		
interfaces / other	interfaces / other		
number of electrical connections			
 for signaling contact 	1		
 for media module 	2		
for power supply	1		
type of electrical connection			
 for signaling contact 	2-pole terminal block		
for power supply	4-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			
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	12 V		
power loss [W] / 1 / rated value	16.6 W		
supply voltage / 1 / rated value	20 30 V		
consumed current / 1 / maximum	0.7 A		
 type of electrical connection / 1 / for power supply 	4-pole terminal block		
 product component / 1 / fusing at power supply input 	Yes		
ambient conditions			

SCALANCE X308-2M TS

ambient temperature	
 during operation 	-40 +70 °C
during storage	-40 +70 °C
 during transport 	-40 +70 °C
• note	Reduced operating temperature through the use of media modules (-40
	°C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C). If the device is installed in the vertical position, the maximum operating
	temperature is reduced to +50 °C.
relative humidity	
 at 25 °C / without condensation / during operation / 	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	124 mm
net weight	1.4 kg
product feature / conformal coating	Yes
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting
a 10 inch installation	rail is not permitted.
• 19-inch installation	No
35 mm top hat DIN rail mounting	Yes
wall mounting	Yes
• S7-300 rail mounting	Yes
S7-1500 rail mounting	No
product features, product functions, product components	
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, engineeri	
product functions / management, configuration, engineeri product function	ng
product functions / management, configuration, engineeri product function • CLI	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management	Yes Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support	Yes Yes Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email	Yes Yes Yes Yes Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7	Yes Yes Yes Yes Yes Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON	Yes Yes Yes Yes Yes Yes Yes Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP	Yes
product functions / management, configuration, engineeri product function	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • BOOTP • GMRP • DCP • LLDP	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • BOOTP • GMRP • DCP • LLDP • SNMP v1	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3	Yes
product functions / management, configuration, engineeri product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2	Yes

MAN - Device-special intermation Yes	10110	V
product functions / fdiagnostics product function	1&M0 - device-specific information	Yes
product function • port diagnostics • port diagnostics • port diagnostics • statistics Packet Size • statistics packet type • error statistics • yes • systog • yes • systog product functions • VLAN - port based • VLAN - probabed • Ves • Parallel Redundancy Probood (PRP) Web • Res TP • Res TP • Res		Yes
optor dagposatics		
statistics Packet Size statistics packet type error statistics yes yes yes yes yes yes yes yes yes ye	•	
e salasticis packet type e error statistics e Syst.og Yes Product functions / VLAN proflusaed e VLAN - prosposed e VLAN -		
e error statistics Yes SysLog Product functions / VLAN product function • VLAN - prot based Yes • VLAN - prot based Yes • VLAN - protocol-based No • VLAN - protocol-based No • VLAN - Prased Yes • VLAN - prased Yes • VLAN - Prased No • VLAN - Prased No • VLAN - Prased No • VLANS - framenium 255 protocol / is supported / GVRP Product function • DHCP client Yes • DHCP Option 80 • DHCP Option 80 • DHCP Option 87 • DHCP Option 87 • DHCP Option 87 • Preseded tunctions / Predundancy Product function • In gredundancy Product function • In gredundancy Protocol (HRP) With Yes • In high Speed Redundancy protocol (HRP) With redundancy manager • In high Speed redundancy protocol (HRP) With redundancy manager • In high Speed redundancy protocol (HRP) With redundancy manager • In high Speed redundancy protocol (HRP) With redundancy manager • In edundancy procedure RSTP • Per edundancy procedure RSTP • redundancy procedure RSTP • Per elementancy procedure RS		
e SysLog Product functions / VLAN port based Product function • VLAN - port based No • VLAN - protocol-based No • VLAN - protocol-based No • VLAN - IP-based Product P		
product function / VLAN - port based		
product function • VLAN - port based • VLAN - protocob-based • VLAN - IP-based • VES number of VLANs - dynamic / maximum 255 number of VLANs - dynamic /		Yes
• VLAN - protocol-based • VLAN dynamic - wes -	product functions / VLAN	
• VLAN - protocol-based • VLAN - IP-based • VLAN (Anyamic ves vumber of VLANs - dynamic / maximum number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product tunctions / DHCP product tunction • DHCP Cplion 82 • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 • DHCP Option 67 • Pes product functions / redundancy product functions / redundancy product function • ring redundancy • ring redundancy • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy manager 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 protocol / is supported / Media Redundancy Protocol (MRP) • Parallel Redundancy Protocol (PRP)/Redundant No Nework Access (RNA) • passive listening protocol / is supported • STP/RSTP • RSTP • R	product function	
• VLAN - IP-based • VLAN dynamic vyes number of VLANs / maximum 255 number of VLANs / maximum 255 product functions / DHCP product functions / PHCP product function / PHCP PRODUCT / PHCP P	 VLAN - port based 	Yes
• VLAN dynamic number of VLANs - dynamic / maximum 255 prolocol / is supported / GVRP product functions / DHCP product functions / DHCP product function • DHCP Cplion 82 • DHCP Option 82 • DHCP Option 87 Product functions / redundancy product functions / redundancy / Yes • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with redundancy redundancy / Yes protocol / is supported / Media Redundancy Protocol (MRP) • redundancy optocodure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP •	 VLAN - protocol-based 	No
number of VLANs / maximum 255 number of VLANs - dynamic / maximum 255 protocol / is supported / GVRP product function / DHCP product function / DHCP product function / DHCP product function / DHCP Yes DHCP Option 82	 VLAN - IP-based 	No
number of VLANs - dynamic / maximum product functions / DHOP product functions DHCP client DHCP client DHCP Option 82 DHCP Option 86 DHCP Option 66 Pes DHCP Option 67 Product function ing redundancy Product function ing redundancy Product function ing redundancy Product function ing redundancy Protocol (HRP) ing speed redundancy Protocol (HRP) ing speed redundancy protocol (HRP) with redundancy manager ing redundancy protocol (HRP) with standby redundancy manager ing redundancy protocol (HRP) with redundancy Protocol / Ing Product function redundancy manager redundancy protocol (MRP) with redundancy Protocol / Ing Product function redundancy procedure RSTP Product function redundancy procedure RSTP Predundancy Protocol (PRP)/Redundant No Newtork Access (RNA) Passive listening Protocol / is supported STP Yes STP	VLAN dynamic	Yes
protocol / is supported / GVRP product functions / DHEP product function	number of VLANs / maximum	255
product function DHCP Client DHCP Option 82 DHCP Option 66 DHCP Option 67 Pes 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 manager Product function media redundancy protocol (MRP) with redundancy redundancy protocol / is supported / Media Redundancy Protocol (MRP) Product function media redundancy protocol (MRP) with redundancy redundancy redundancy procedure RSTP redundancy procedure RSTP Perallel Redundancy Protocol (PRP)/Predundant Yes Parallel Redundancy Protocol (PRP)/Redundant No	number of VLANs - dynamic / maximum	255
product function DHCP client DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Product functions / redundancy product function ing redundancy Product function ing redundancy Protocol (speed Redundancy Protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with redundancy manager high speed redundancy Protocol (HRP) with redundancy more function is supported / Media Redundancy Protocol (MRP) Protocol / is supported / Media Redundancy Protocol (MRP) protocol / is supported / Media Redundancy Protocol (MRP) in edundancy procedure STP redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP Paralle Redundancy Protocol (PRP)/Operation in the PRP-network Paralle Redundancy Protocol (PRP)/Redundant No Network Access (RNA) passive listening protocol / is supported STP/RSTP STP STP STP STP STP RSTP	protocol / is supported / GVRP	Yes
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DHCP Option 67 product functions / rodundancy product function ing redundancy inigh Speed Redundancy Protocol (HRP) Yes inigh speed redundancy protocol (HRP) with redundancy manager inigh speed redundancy protocol (HRP) with standby 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 redundancy procedure MSTP realla Redundancy Protocol (PRP)/operation in the PRP-network realla Redundancy Protocol (PRP)/Redundant No Network Access (RNA) passive listening protocol / is supported STP Yes STP STP RSTP RS	 DHCP Option 82 	Yes
product function / redundancy 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 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 • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • STP • STP • STP • RSTP • MSTP • RSTP • MSTP • RSTP • MSTP • RSTP • MSTP • RSTP • R	 DHCP Option 66 	Yes
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 protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure MSTP redundancy Protocol (PRP)/Redundant her PRP-network redundancy Protocol (PRP)/Redundant retwork Access (RNA) ressive listening reductions / supported redundancy Protocol (PRP)/Redundant respectively ressive listening reductions / security ressive listening reductions / security ressive listening reductions / security ressive listening reductively ressive listening reductively ressive listening reductively ressive listening reductions / security ressive listening reductively ressive	 DHCP Option 67 	Yes
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 protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure MSTP redundancy Protocol (PRP)/Redundant her PRP-network redundancy Protocol (PRP)/Redundant retwork Access (RNA) ressive listening reductions / supported redundancy Protocol (PRP)/Redundant respectively ressive listening reductions / security ressive listening reductions / security ressive listening reductions / security ressive listening reductively ressive listening reductively ressive listening reductively ressive listening reductions / security ressive listening reductively ressive	product functions / redundancy	
• ring redundancy • High Speed Redundancy Protocol (HRP) • high 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 procedure STP • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP		
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 high 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 procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP Perallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant No Nessive listening protocol / is supported STP/RSTP STP RSTP Yes RSTP Yes RSTP Yes RSTP Yes ASTP Yes RSTP Yes ASTP Yes ASTP Yes ACL - MAC-based ACL - MAC-based ACL - Dort/MAC-based IEEE 802.1x (radius) Yes broadcast/multicast/unctioast limiter Yes 	,	Yes
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 procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP • RSTP • RSTP big network support • LACP product functions • ACL - MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter		Yes
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 • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP • RSTP • RSTP • RSTP • RSTP big network support • LACP product function • ACL - MAC-based • ACL - port/MAC-based • EEEE 802.1x (radius) • broadcast/multicast/unicast limiter Yes • broadcast/multicast/unicast limiter		
protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP		Yes
(MRP) product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP • MSTP • RSTP • RSTP big network support • LACP product function • ACL - MAC-based • ACL - port/MAC-based • EEE 802.1x (radius) • Yes • broadcast/multicast/unicast limiter Yes • broadcast/multicast/unicast limiter		
product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • MSTP • RSTP • RSTP Yes • MSTP • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter Yes • broadcast/multicast/unicast limiter		Yes
media redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) passive listening rotocol / is supported STP/RSTP STP RSTP RSTP RSTP RSTP RSTP ACL - MAC-based ACL - port/MAC-based Fes Pres Yes Product functions / security Products functions Procedure functions / yes Foreign and the redundancy of the security Product functions / yes Fes Fes RSTP Pes ACL - port/MAC-based Pes Foreign and the redundancy of the security Product functions / yes From the redundancy of the security Product functions / yes Fes Fes Fes Fes RSTP Pes ACL - port/MAC-based Yes Fes Fes Fes Fes Fes Fes Fes		
manager • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/operation in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant No Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP • RSTP Yes • RSTP Yes • RSTP big network support • LACP product functions / security product functions • ACL - MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter Yes • broadcast/multicast/unicast limiter	·	Yes
redundancy procedure RSTP redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening rotocol / is supported STP/RSTP STP RSTP RSTP RSTP Yes RSTP Yes RSTP Yes RSTP Yes No RSTP Yes		166
redundancy procedure MSTP Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening yes protocol / is supported STP/RSTP Yes STP RSTP RSTP Yes MSTP RSTP	redundancy procedure STP	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening yes protocol / is supported STP/RSTP STP RSTP MSTP MSTP RSTP big network support LACP LACP Product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes 	redundancy procedure RSTP	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network Parallel Redundancy Protocol (PRP)/Redundant No No Network Access (RNA) passive listening yes protocol / is supported STP/RSTP STP RSTP MSTP MSTP RSTP big network support LACP LACP Product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes 	redundancy procedure MSTP	Yes
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) passive listening yes protocol / is supported STP/RSTP STP RSTP RSTP MSTP RSTP big network support LACP Product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter No Yes STP Yes Yes Broadcast/multicast/unicast limiter No No No No No No No No Yes Yes 		Yes
Network Access (RNA) • passive listening protocol / is supported • STP/RSTP • STP • STP • RSTP • MSTP • MSTP • RSTP big network support • LACP product functions / security product function • ACL - MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter Yes Protocolor incolor in		
 passive listening protocol / is supported STP/RSTP STP Yes RSTP MSTP MSTP RSTP big network support LACP Yes LACP product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes 		No
protocol / is supported STP/RSTP STP STP RSTP MSTP MSTP RSTP big network support LACP Product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes Yes Yes Yes Yes Yes Yes Y	, ,	V
 STP/RSTP STP RSTP MSTP RSTP big network support LACP Yes LACP Yes product functions / security product function ACL - MAC-based ACL - port/MAC-based ACL - port/MAC-based Yes IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes 		Yes
STP RSTP STP STP STP STP STP STP STP STP STP		V.
 RSTP MSTP RSTP big network support LACP Ves LACP Yes product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes broadcast/multicast/unicast limiter 		
 MSTP RSTP big network support LACP Yes product functions / security product function ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter 		
 RSTP big network support LACP Yes product functions / security product function ACL - MAC-based ACL - port/MAC-based Yes IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes broadcast/multicast/unicast limiter 		
● LACP Product functions / security product function ● ACL - MAC-based ● ACL - port/MAC-based ● IEEE 802.1x (radius) ● broadcast/multicast/unicast limiter Yes		
product functions / security product function • ACL - MAC-based Yes • ACL - port/MAC-based Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes		
product function • ACL - MAC-based Yes • ACL - port/MAC-based Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes		Yes
 ACL - MAC-based ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes Yes	product functions / security	
 ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes Yes 	·	
 IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes 		Yes
• broadcast/multicast/unicast limiter Yes	 ACL - port/MAC-based 	Yes
	• IEEE 802.1x (radius)	Yes
• broadcast blocking Yes	 broadcast/multicast/unicast limiter 	Yes
	broadcast blocking	Yes

protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes
IEEE 1588 profile default	Yes
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
 for hazardous zone / from CSA and UL 	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213- M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
 for emitted interference 	EN 61000-6-4
for interference immunity	EN 61000-6-2
MTBF	40 y
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2, EN 61000-6-4
C-Tick	Yes
 railway application in accordance with EN 50155 	Yes
 railway application in accordance with EN 50121-4 	Yes
 fire protection in accordance with EN 45545-2 	Yes
 KC approval 	Yes
standards, specifications, approvals / marine classificatio	n
Marine classification association	
 French marine classification society (BV) 	Yes
 Korean Register of Shipping (KRS) 	Yes
further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/snst
 to website: Industrial communication 	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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