SIEMENS

Product data sheet 6GK5324-0GG00-3AR2

SCALANCE XR324-12M Product-type designation SCALANCE XR324-12M MANAGED IE SWITCH, 19" RACK; POWER SUPPLY 230V AC; PORTS FRONT SIDE: 12 X 100/1000MBIT/S F. 2-PORT- MEDIA MODULES, ELEKTRICAL ODER OPTICAL; LED-DIAGNOSTICS: FAULT SIGNAL CONTACT; WITH SELECT/SET BUTTON; PROFINET-IO DEVICE, NETWORK- MANAGEMENT. INTEGRATED REDUNDANCY MANAGER OFFICE FEATURES (RSTP, VLAN, IGMP,..); C-PLUG IN THE SCOPE OF SUPPLY Transmission rate Transfer rate / 1 10 Mbit/s Transfer rate / 2 100 Mbit/s Transfer rate / 3 1000 Mbit/s Interfaces Number of electrical/optical connections / for network components or 24 terminal equipment / maximum Number of electrical connections · for operator console 1 · for signaling contact 1 · for media module 12 · for power supply · for redundant power supply 0 Design of electrical connection • for network components and terminal equipment Dependent on selected media modules · for operator console RJ11 port · for signaling contact 2-pole terminal block 2-pole terminal block · for power supply Design of optical interface / for optical waveguide

• at 100 Mbit/s

Dependent on selected media modules

Signal-Imputs/outputs	• at 1000 Mbit/s	Dependent on selected media modules
Signal-Inputs/outputs Operating voitage / of signaling contacts / at DC / rated value Operating current / of signaling contacts / at DC / maximum O,1 A Supply voitage, current consumption, power loss Type of supply voitage / redundant power supply unit No Type of supply voitage - external - fusing at power supply input - yes Type of fusing / at input for supply voitage Consumed current / maximum - external - at 230 V Consumed current / maximum - external		
Operating voltage / of signaling contacts / at DC / rated value Operating current / of signaling contacts / at DC / maximum O.1 A Supply voltage, current consumption, power loss Type of supply voltage / rectundant power supply unit Type of / supply voltage • external • at 1,54 / 250 V Consumed current / maximum • 0.8 A Power loss • at 230 V / AC Pormitted ambient conditions Ambient temperature • during operating • during storage • during transport • during storage • during transport • Comment Relative humidity • at 25 °C / without condensation / during operating / maximum Ambient condition Ambient condition Ambient condition Ambient condition Ambient condition Ambient condition Protection class IP Design, dimensions and weight No No No		
Supply voltage, current consumption, power loss		24 V
Supply voltage, current consumption, power loss Type of supply voltage AC Supply voltage external 230 V external 85264 V Product component / fusing at power supply input Yes Type of fusing / at input for supply voltage 3,15 A / 250 V Consumed current / maximum 0.8 A Power loss at 230 V / AC Permitted ambient conditions Ambient temperature during operating during storage during transport - Comment Comment Relative humidity at 25 °C / without condensation / during operating / maximum Ambient condition Ambient temperature structure (as °C of surfament) for (standard) operation mode Frotection class IP Design, dimensions and weight Design 19° rack Mounting type - 19-inch installation - 200 Ves		0.1 A
Type of supply voltage AC Supply voltage external fryes of fusing at power supply input Type of fusing at input for supply voltage at 230 V Consumed current / maximum 0.8 A Power loss at 230 V / AC 50 W Permitted ambient conditions Anbient temperature during operating during storage during storage during storage during storage during storage during transport Comment Reduced operating temperature through the use of media modules (40° Cb + 70° C) or SFP plug-in transceivers (40° Cb + 60° Cb). 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 operating / maximum Ambient condition for (standard) operation mode Conformal coating, no Protection class IP Design, dimensions and weight Design dimensions and weight Design protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height 44 mm Depth 305 mm No No		
Type of / supply voltage AC • external 230 V • external 85264 V Product component / fusing at power supply input Yes Type of fusing / at input for supply voltage 3.15 A /250 V Consumed current / maximum 0.8 A Power loss - • at 230 V / AC 50 W Premitted ambient conditions Ambient temperature -40 +80 °C • during operating -40 +85 °C • during storage -40 +85 °C • during transport -40 +85 °C • Comment Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plugin 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 operating / maximum 95 % Ambient condition - (conformal coating, no • for (standard) operation mode Conformal coating, no Protection class IP IP20 Design, dimensions and weight Design, dimensions and weight 44 mm Height		No
external 230 V external 85 264 V Product component / fusing at power supply input Yes Type of fusing / at input for supply voltage 3,15 A / 250 V Consumed current / maximum 0.8 A Power loss - at 230 V / AC - at 230 V / AC 50 W Permitted ambient conditions Ambient temperature - during operating -40 +70 °C - during storage -40 +85 °C - during transport -40 +85 °C - Comment 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 operating / maximum 95 % Ambient condition - for (standard) operation mode Conformal costing, no Protection class IP IP20 Design, dimensions and weight 44 mm Design, dimensions and weight 44 mm Depth 305 mm Net weight 5.9 kg Mounting type	Type of / supply voltage	AC
external 85 264 V Product component / fusing at power supply input Yes Type of fusing / at input for supply voltage 3.15 A / 250 V Consumed current / maximum 0.8 A Power loss	Supply voltage	
Product component / fusing at power supply input Type of fusing / at input for supply voltage Consumed current / maximum 0.8 A Power loss	external	230 V
Type of fusing / at input for supply voltage Consumed current / maximum 0.8 A Power loss • at 230 V / AC 50 W Permitted ambient conditions Ambient temperature • during operating • during storage • during transport • Comment • Comment Relative humidity • at 25 °C / without condensation / during operating / maximum Ambient condition Ambient condition Relative humidity • at 25 °C / without condensation / during operating / maximum Ambient condition Froe (standard) operation mode Protection class IP Design, dimensions and weight Design, dimensions and weight Depth Height 44 mm Depth No No	external	85 264 V
Consumed current / maximum Power loss • at 230 V / AC Permitted ambient conditions Ambient temperature • during operating • 40 +70 °C • during storage • during transport • Comment • Comment Relative humidity • at 25 °C / without condensation / during operating / maximum Ambient condition Ambient condition Protection class IP Pesign, dimensions and weight Design, dimensions and weight Depth Au 305 mm Net weight Mounting type • 19-inch installation • 20 W	Product component / fusing at power supply input	Yes
Power loss * at 230 V / AC Permitted amblent conditions Ambient temperature * during operating * during storage * during transport * Comment * Comment * 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 operating / maximum Ambient condition * for (standard) operation mode Protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height 44 mm Depth Note 19-inch installation 19-inch installation Yes 19-inch installation Yes No	Type of fusing / at input for supply voltage	3,15 A / 250 V
Permitted ambient conditions Ambient temperature • during operating • during storage • during transport • Comment • Comment • 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 operating / maximum • for (standard) operation mode • Conformal coating, no Protection class IP Design, dimensions and weight Design, dimensions and weight Design 19° rack Width 483 mm Height 44 mm Depth No Mounting type • 19-inch installation Yes No	Consumed current / maximum	0.8 A
Permitted ambient conditions Ambient temperature • during operating • during storage • during transport • Comment 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 operating / maximum Ambient condition • for (standard) operation mode Conformal coating, no Protection class IP Design, dimensions and weight Design, dimensions and weight Design 19° rack Width 483 mm Height 44 mm Depth 305 mm Net weight Mounting type • 19-inch installation Yes No	Power loss	
Ambient temperature • during operating • during storage • during transport • Comment • Comment 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 operating / maximum Ambient condition • for (standard) operation mode Conformal coating, no Protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height 44 mm Depth 305 mm Net weight Mounting type • 19-inch installation Yes No	• at 230 V / AC	50 W
 during operating during storage during transport Comment Ado "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 operating / maximum 95 % Ambient condition for (standard) operation mode Conformal coating, no IP20 Design, dimensions and weight Design, dimensions and weight UP20 Design, dimensions and weight Height 44 mm Depth 44 mm Depth 5.9 kg Mounting type 19-inch installation Yes 35 mm DIN rail mounting No 	Permitted ambient conditions	
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- during transport - Comment - Comm	during operating	-40 +70 °C
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 operating / maximum • for (standard) operation mode Conformal coating, no Protection class IP IP20 Design, dimensions and weight Design 19" rack Width 483 mm Height 44 mm Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes No	during storage	-40 +85 °C
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 operating / maximum • for (standard) operation mode • for (standard) operation mode Protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height Depth 305 mm Net weight Mounting type • 19-inch installation • Yes 35 mm DIN rail mounting	during transport	-40 +85 °C
 at 25 °C / without condensation / during operating / maximum Ambient condition for (standard) operation mode Conformal coating, no Protection class IP IP20 Design, dimensions and weight Design 19" rack Width 483 mm Height Height Depth Not Mounting type 19-inch installation Yes 35 mm DIN rail mounting No 	• Comment	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
Ambient condition • for (standard) operation mode Protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height Depth 305 mm Net weight Mounting type • 19-inch installation • 35 mm DIN rail mounting Conformal coating, no IP20 IP20 IP20 IP20 19" rack 44 mm 5.9 kg No	Relative humidity	
• for (standard) operation mode Protection class IP Design, dimensions and weight Design 19" rack Width 483 mm Height Depth 305 mm Net weight Mounting type • 19-inch installation • 35 mm DIN rail mounting Conformal coating, no IP20 IP20 IP20 19" rack 483 mm 44 mm 5.9 kg No	• at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP IP20 Design, dimensions and weight Design 19" rack Width 483 mm Height 44 mm Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Ambient condition	
Design, dimensions and weight Design 19" rack Width 483 mm Height Depth 305 mm Net weight 5.9 kg Mounting type 19-inch installation Yes 35 mm DIN rail mounting No	for (standard) operation mode	Conformal coating, no
Design 19" rack Width 483 mm Height 44 mm Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Protection class IP	IP20
Width 483 mm Height 44 mm Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Design, dimensions and weight	
Height 44 mm Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Design	19" rack
Depth 305 mm Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Width	483 mm
Net weight 5.9 kg Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Height	44 mm
Mounting type • 19-inch installation Yes • 35 mm DIN rail mounting No	Depth	305 mm
 19-inch installation 35 mm DIN rail mounting No 	Net weight	5.9 kg
• 35 mm DIN rail mounting	Mounting type	
	• 19-inch installation	Yes
• wall mounting	35 mm DIN rail mounting	No
	wall mounting	No

• S7-300 rail mounting No Mounting type When used in shipbuilding, the device must be secured in the 19" rack at four points Product properties, functions, components / general Cascading in the case of a redundant ring / at reconfiguration time of 50 <\~0.3\~s Cascading in cases of star structuring Any (depending only on signal propagation time) Product function • CLI Yes • web-based management Yes • MIB support Yes • TRAPs via email Yes • Configuration with STEP 7 Yes • RMON Yes · Port mirroring Yes · multiport mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes • switch-managed Yes Protocol / is supported Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • FTP Yes • BOOTP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • GMRP Yes • DCP Yes • LLDP Yes Identification & maintenance function • I&M0 - device-specific information Yes • I&M1 – higher level designation/location designation Yes Product functions / Diagnosis Product function · Port diagnostics Yes

Statistics Packet Size

Yes

- Error statistics	Statistics packet type	Yes
Product function / VLAN Product function - VLAN - port based - VLAN dynamic Number of VLANs - dynamic / maximum 255 Protocol / is supported / GVRP Product functions / DHCP Product functions / DHCP Product functions - DHCP client - DHCP client - DHCP Option 82 - DHCP Option 66 - DHCP Option 67 Product functions / Redundancy - Redundancy manager - Standby redundancy - High Speed Redundancy Protocol (HRP) - Media Redundancy Protocol (MRP) - redundancy procedure RSTP - redundancy procedure RSTP - redundancy procedure MSTP - Passive listening - Yes - STP/RSTP - Passive listening - Yes - RSTP	Error statistics	Yes
Product function • VLAN - port based • VLAN dynamic Number of VLANs / maximum 255 Number of VLANs - dynamic / maximum 255 Product functions / DHCP Product functions / DHCP Product function • DHCP Option 82 • DHCP Option 65 • DHCP Option 67 Product functions • Requandancy manager • Standay redundancy Product function + Ring redundancy Product function • Redundancy manager • Standay redundancy + Ves • High Speed Redundancy Protocol (HRP) • redundancy procedure STP • redundancy procedure STP • redundancy procedure MSTP • Passive listening Protocol / is supported • STP/RSTP • Passive listening Product function • RSTP •	• SysLog	Yes
. VLAN - port based . VLAN dynamic . Ves . VLAN dynamic . Ves . Number of VLANs - / maximum . 255 . Number of VLANs - dynamic / maximum . 255 . Protocol / is supported / GVRP . Ves . OHCP Option 8 . DHCP Option 82 . DHCP Option 66 . DHCP Option 66 . DHCP Option 7 . Ves . Outlond / Maximum . Ring redundancy . Ves . Redundancy manager . Standby redundancy . High Speed Redundancy Protocol (HRP) . Media Redundancy Protocol (MRP) . Wes . Ves . STP . Ves . RSTP . V	Product functions / VLAN	
- VLAN dynamic Yes Number of VLANs / dynamic / maximum 255 Protocol / is supported / GVRP Yes Product functions / DHCP Product function - - DHCP client 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 - Bing redundancy Yes - Ring redundancy Yes - Redundancy manager Yes - Standby redundancy Yes - High Speed Redundancy Protocol (HRP) Yes - Redundancy procedure STP Yes - redundancy procedure RSTP Yes - redundancy procedure MSTP Yes - Passive listening Yes Protocol / is supported - - STP/RSTP Yes - RSTP Yes - RSTP big network support Yes - LACP Yes	Product function	
Number of VLANs / maximum 255 Number of VLANs - dynamic / maximum 255 Protocol / is supported / GVRP Yes Product functions / DHCP Product function	VLAN - port based	Yes
Number of VLANs - dynamic / maximum 255 Protocol / is supported / GVRP Yes Product functions / DHCP Yes - DHCP client Yes - DHCP Option 82 Yes - DHCP Option 66 Yes - DHCP Option 67 Yes Product functions / Redundancy - Ring redundancy Yes - Redundancy manager Yes - Standby redundancy Yes - High Speed Redundancy Protocol (HRP) Yes - Media Redundancy Protocol (MRP) Yes - redundancy procedure STP Yes - redundancy procedure MSTP Yes - redundancy procedure MSTP Yes - Passive listening Yes Protocol / is supported Yes - STP/RSTP Yes - RSTP big network support Yes - LACP Yes Product function Yes - LACP Yes Product function Yes - IEEE 802.1X (radius) Yes - Broadcast/Multicast/Unicast Limiter	VLAN dynamic	Yes
Product functions / DHCP Product function DHCP client DHCP product function DHCP profice 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Product functions / Redundancy Product function Ring redundancy Redundancy Redundancy High Speed Redundancy High Speed Redundancy Protocol (HRP) Redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP Passive listening Protocol / is supported STP/RSTP RSTP RS	Number of VLANs / maximum	255
Product functions / DHCP Product function . DHCP client Yes . DHCP Option 82 Yes . DHCP Option 66 Yes . DHCP Option 67 Yes . DHCP Option 67 Yes Product functions / Redundancy Product function . Ring redundancy Yes . Redundancy manager Yes . Standby redundancy Yes . Standby redundancy Protocol (HRP) Yes . Yes . High Speed Redundancy Protocol (MRP) Yes . Yes . Media Redundancy Protocol (MRP) Yes . Yes . redundancy procedure STP Yes . Yes . redundancy procedure RSTP Yes . Yes . Passive listening Yes . Yes Protocol / is supported . Yes . Yes . STP Yes . STP . RSTP Yes . RSTP big network support Yes . LACP Yes . LACP Yes Product function . ACL - port/MAC-based Yes . Broadcast/Multicast/Unicast Limiter Yes	Number of VLANs - dynamic / maximum	255
Product function	Protocol / is supported / GVRP	Yes
• DHCP option 82 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product functions / Redundancy Product function *** • Ring redundancy Yes • Redundancy manager Yes • Standby redundancy Yes • High Speed Redundancy Protocol (HRP) Yes • Media Redundancy Protocol (MRP) Yes • redundancy procedure STP Yes • redundancy procedure RSTP Yes • redundancy procedure MSTP Yes • Passive listening Yes Protocol / is supported ** • STP/RSTP Yes • RSTP Yes • RSTP big network support Yes • LACP Yes Product functions / Security Product function • ACL - port/MAC-based Yes • EEE 802.1X (radius) Yes • Broadcast/Multicast/Unicast Limiter Yes	Product functions / DHCP	
• DHCP Option 62 Yes • DHCP Option 66 Yes • DHCP Option 67 Yes Product functions / Redundancy • Ring redundancy Yes • Redundancy manager Yes • Standby redundancy Yes • High Speed Redundancy Protocol (HRP) Yes • Media Redundancy Protocol (MRP) Yes • redundancy procedure STP Yes • redundancy procedure RSTP Yes • redundancy procedure MSTP Yes • Passive listening Yes Protocol / is supported Yes • STP/RSTP Yes • RSTP Yes • RSTP big network support Yes • LACP Yes Product functions / Security Product functions / Security Product functions • ACL - port/MAC-based Yes • Broadcast/Multicast/Unicast Limiter Yes	Product function	
DHCP Option 66 DHCP Option 67 Yes Product functions / Redundancy Product function Ring redundancy Protocol (HRP) Redia Redundancy Protocol (MRP) Redia Redundancy Res Redundancy Redundancy Res Redundancy Res Redundancy Redundancy Redundancy Redundancy Res Redundancy Redundancy Redundancy Res Redundancy Redundanc	DHCP client	Yes
Product functions / Redundancy Product function Ring redundancy Redundancy manager Standby redundancy High Speed Redundancy Protocol (HRP) Redindancy procedure STP Redundancy procedure STP Redundancy procedure RSTP Redundancy procedure MSTP Passive listening Protocol / is supported STP/RSTP RSTP RSTP RSTP RSTP RSTP big network support LACP Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	DHCP Option 82	Yes
Product function / Redundancy	DHCP Option 66	Yes
Product function Ring redundancy Redundancy Redundancy manager Standby redundancy High Speed Redundancy Protocol (HRP) Media Redundancy Protocol (MRP) Redundancy procedure STP Redundancy procedure STP Redundancy procedure RSTP Redundancy procedure MSTP Redundancy procedure MSTP Resive listening Protocol / is supported STP/RSTP RSTP RSTP RSTP RSTP RSTP RSTP RSTP	DHCP Option 67	Yes
 Ring redundancy Redundancy manager Standby redundancy High Speed Redundancy Protocol (HRP) Media Redundancy Protocol (MRP) Yes Media Redundancy Protocol (MRP) Yes redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP Yes redundancy procedure MSTP Yes Passive listening Yes Protocol / is supported STP/RSTP Yes RSTP RSTP RSTP RSTP big network support LACP Yes Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Proadcast/Multicast/Unicast Limiter Yes 	Product functions / Redundancy	
Redundancy manager Standby redundancy Standby redundancy High Speed Redundancy Protocol (HRP) Media Redundancy Protocol (MRP) Fredundancy procedure STP Fredundancy procedure RSTP Fredundancy procedure MSTP Fre	Product function	
Standby redundancy High Speed Redundancy Protocol (HRP) Media Redundancy Protocol (MRP) redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP Passive listening Protocol / is supported STP/RSTP STP RSTP RSTP RSTP RSTP RSTP RSTP big network support LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	Ring redundancy	Yes
 High Speed Redundancy Protocol (HRP) Media Redundancy Protocol (MRP) Yes Media Redundancy Protocol (MRP) Yes redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP Yes Passive listening Yes Protocol / is supported STP/RSTP Yes STP Yes RSTP RSTP Yes LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Yes Broadcast/Multicast/Unicast Limiter Yes 	Redundancy manager	Yes
Media Redundancy Protocol (MRP) redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure MSTP Passive listening Protocol / is supported STP/RSTP STP RSTP RSTP RSTP RSTP RSTP big network support LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	Standby redundancy	Yes
redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP Passive listening Protocol / is supported STP/RSTP STP RSTP RSTP RSTP RSTP RSTP big network support LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	High Speed Redundancy Protocol (HRP)	Yes
 redundancy procedure RSTP redundancy procedure MSTP Yes Passive listening Yes Protocol / is supported STP/RSTP Yes STP RSTP RSTP RSTP big network support LACP Yes Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes 	Media Redundancy Protocol (MRP)	Yes
 redundancy procedure MSTP Passive listening Yes Protocol / is supported STP/RSTP Yes • STP Yes RSTP RSTP RSTP big network support LACP Yes Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Proadcast/Multicast/Unicast Limiter Yes Yes Yes Product functions Yes Product function Yes Yes Product function Yes Yes Product function Yes Yes Product function Yes Yes Yes Product function Yes Yes Product function Yes Yes Yes Product function Yes Yes Product function Yes Yes Product function Yes Yes Yes Product function Yes Yes Yes Yes Product function Yes Yes Yes Product function Yes Yes Product function Yes Product function Yes Yes Product function Product function Yes Product function Yes Product function Yes Product function Yes Product function Product function Yes	• redundancy procedure STP	Yes
Passive listening Protocol / is supported STP/RSTP Yes STP STP Yes RSTP Yes RSTP RSTP Yes RSTP big network support LACP Yes Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes	• redundancy procedure RSTP	Yes
Protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP big network support • LACP Product functions / Security Product function • ACL - port/MAC-based • Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	redundancy procedure MSTP	Yes
• STP/RSTP Yes • STP Yes • RSTP Yes • RSTP big network support Yes • LACP Yes Product functions / Security Product function • ACL - port/MAC-based Yes • IEEE 802.1X (radius) Yes • Broadcast/Multicast/Unicast Limiter Yes	Passive listening	Yes
PRSTP RSTP RSTP big network support LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes Yes Yes Yes Yes Y	Protocol / is supported	
 RSTP RSTP big network support LACP Yes LACP Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes Yes	• STP/RSTP	Yes
 RSTP big network support LACP Yes Product functions / Security Product function ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes 	• STP	Yes
Product functions / Security Product function ACL - port/MAC-based Yes IEEE 802.1X (radius) Yes Broadcast/Multicast/Unicast Limiter Yes	• RSTP	Yes
Product functions / Security Product function • ACL - port/MAC-based Yes • IEEE 802.1X (radius) Yes • Broadcast/Multicast/Unicast Limiter Yes	RSTP big network support	Yes
Product function • ACL - port/MAC-based Yes • IEEE 802.1X (radius) Yes • Broadcast/Multicast/Unicast Limiter Yes	• LACP	Yes
 ACL - port/MAC-based IEEE 802.1X (radius) Broadcast/Multicast/Unicast Limiter Yes Yes 	Product functions / Security	
• IEEE 802.1X (radius) • Broadcast/Multicast/Unicast Limiter Yes Yes	Product function	
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
• MSTP	No
IEEE 1588 profile default	Yes
Standards, specifications, approvals	
Standard	
• for EMC	
• from FM	No
for hazardous zone	-
• for safety / of CSA and UL	UL 508, CSA C22.2 No. 142-M1987
• for hazardous area / of CSA and UL	No
for emitted interference	EN 61000-6-4:2007 (Class A)
for interference immunity	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE mark	Yes
• C-Tick	Yes
KC approval	Yes
 Railway application in accordance with EN 50155 	No
Further Information / Internet Links	
Internet-Link	
to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx Download Manager	http://www.siemens.com/cax
to website: Industry Online Support	http://support.automation.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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