## **SIEMENS**

## Data sheet

## 6GK5324-4GG10-4JR2

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 2x 230 V AC; Ports at the back



Product type designation	SCALANCE XR324-4M EEC
Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces / for communication / Integrated	
Number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45
Number of 100 Mbit/s ST(BFOC) ports	
• for multimode	8
Number of 100 Mbit/s SC ports	
• for multimode	8
Number of 1000 Mbit/s LC ports	
• for multimode	8
• for single mode (LD)	8
Interfaces / other	
Number of electrical connections	
• for operator console	1
<ul> <li>for signaling contact</li> </ul>	1
• for media module	4

<ul> <li>In pure suppy</li> <li>In proceeding the suppy</li> <li>If or redundant voltage supply</li> <li>If or operator console</li> <li>R/11</li> <li>If or signaling contact</li> <li>If or signaling contact</li> <li>If operator console</li> <li>R/11</li> <li>If or signaling contact</li> <li>If operator console</li> <li>R/11</li> <li>If or signaling contact</li> <li>If operator console</li> <li>If operator consumption, power loss</li> <li>If operator c</li></ul>	<ul> <li>for power supply</li> </ul>	2
Type of electrical connection       RJ11         • for operator console       RJ11         • for signaling contact       2 x 3-pole terminal block         • for power supply       2 x 3-pole terminal block         design of the removable storage       • C-PLUG         • ct AC / Rated value       230 V         Operating current / of the signaling contacts       • at AC / Rated value         • at AC / Rated value       230 V         Operating current / of the signaling contacts       • at AC / maximum         • at AC / maximum       5 A         • at AC / maximum       5 A         • at AC / maximum       0.1 A         Supply voltage / of the supply voltage       AC         Supply voltage / appl / redundant power supply unit       Yes         Type of voltage suppl / redundant power supply unit       Yes         Type of voltage / a thac       230 V         • at AC       230 V         • at AC / Rated value       80 276 V         Supply voltage / a thac       220 V         • at AC / rated value       315 A / 250 V         Supply voltage / a thac thor supply voltage       DC         Supply voltage / a thac thor supply voltage       315 A / 250 V         Consumed current / maximum       0.7 A		
• for operator console       RJ11         • for signaling contact       2 x 3-pole terminal block         • for power supply       2 x 3-pole terminal block         design of the removable storage       -         • C-PLUG       Yes         Signal inputs/outputs         Operating voltage / of the signaling contacts       -         • at AC / Rated value       276 V         • at AC / Rated value       230 V         Operating voltage / of the signaling contacts       -         • at AC / maximum       5 A         • at AC / maximum       0.1 A         Supply voltage, current consumption, power loss         Type of voltage outply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage / at AC       230 V         • at AC       20 V         • at AC       2178 V / 250 V         Consumed current / maximum		
if or signaling contact       2 x 3-pole terminal block         if or power supply       2 x 3-pole terminal block         design of the removable storage       -         • C-PLUG       Yes         Signal inputs/outputs       276 V         operating voltage / of the signaling contacts       -         • at A C / Rated value       276 V         • at A C / Rated value       230 V         Operating current / of the signaling contacts       -         • at A C / maximum       5 A         • at A C / maximum       0.1 A         Supply voltage, current consumption, power loss       -         Type of voltage / of the supply voltage       AC         Supply voltage       -         • at AC       230 V         • at AC       230 V         • at AC       -         Supply voltage, current consumption, power loss       -         Supply voltage / at fact value       80 276 V         Supply voltage / 2 / for the supply voltage       DC         Supply voltage / 2 / for the supply voltage       DC         Supply voltage / 2 / for the supply voltage       DC         Supply voltage / 2 / for the supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A		D 111
<ul> <li>for power supply</li> <li>2 x 3-pole terminal block</li> <li>design of the removable storage         <ul> <li>C-PLUG</li> <li>Yes</li> </ul> </li> <li>Signal inputs/outputs</li> <li>Operating voltage / of the signaling contacts         <ul> <li>at AC / Rated value</li> <li>230 V</li> </ul> </li> <li>Operating current / of the signaling contacts</li> <li>at AC / Rated value</li> </ul> <li>Operating current / of the signaling contacts</li> <li>at AC / maximum</li> <li>AC</li> <li>Supply voltage, current consumption, power loss</li> <li>Type of voltage supply / redundant power supply unit</li> <li>Yes</li> <li>Supply voltage</li> <li>at AC and the supply voltage</li> <li>AC</li> <li>Supply voltage / of the supply voltage</li> <li>at AC and the supply voltage</li> <li>at AC and the supply voltage</li> <li>at AC and the supply voltage</li> <li>DC</li> <li>Supply voltage / 1 / Rated value</li> <li>Type of voltage / 2 / fated value</li> <li>Type of voltage / 2 / of the supply voltage</li> <li>DC</li> <li>Supply voltage / 1 DC</li> <li>at DC / at 2D V</li> <li>at at DC and the supply voltage</li> <li>DC</li> <li>Supply voltage / at DC</li> <li>AC and the supply voltage</li> <li>DC</li> <li>Supply voltage / at DC</li> <li>at DC / at 2D V</li> <li>at</li>		
design of the removable storage     Yes       Signal inputs/outputs     Operating voltage / of the signaling contacts     at AC / Rated value       at AC / Rated value     230 V       Operating voltage / of the signaling contacts     at AC / maximum       at AC / maximum     5 A       at AC / maximum     0.1 A       Supply voltage / of voltage supply / redundant power supply unit     Yes       Type of voltage upply / redundant power supply unit     Yes       Supply voltage     AC       Supply voltage / of the supply voltage     AC       Supply voltage / at AC     at AC / rated value       at AC / rated value     80 276 V       Supply voltage / 2 / fated value     80 276 V       Supply voltage / 2 / fated value     80 276 V       Supply voltage / 2 / fated value     80 276 V       Supply voltage / 2 / fated value     80 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 276 V       Supply voltage / 2 / fated value     90 270 V       future to value     41 200 V <td></td> <td></td>		
• C-PLUG       Yes         Operating voltage / of the signaling contacts       276 V         • at AC / Rated value       276 V         • at AC / Rated value       230 V         Operating current / of the signaling contacts       5 A         • at AC / maximum       5 A         • at AC / maximum       5 A         • at AC / maximum       0.1 A         Supply voltage, current consumption, power loss       Type of voltage supply / redundant power supply unit         Yes       AC         Supply voltage       AC         Supply voltage / of the supply voltage       AC         Supply voltage / at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / fatted value       80 276 V         Supply voltage / 2 / fatted value       200 V         • at AC / rated value       80 276 V         Supply voltage / 2 / fatted value       200 V         • at AC / rated value       40 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at Input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [V]       • at AC / at 230 V       42 W         • at AC / at 2		2 x 3-pole terminal block
Signal inputs/outputs         Operating voltage / of the signaling contacts         • at AC / Rated value       230 V         Operating current / of the signaling contacts       - at DC / Rated value         • at DC / Rated value       230 V         Operating current / of the signaling contacts       - at DC / maximum         • at DC / maximum       0.1 A         Supply voltage, current consumption, power loss		Ver
Operating voltage / of the signaling contacts       276 V         • at AC / Rated value       230 V         Operating current / of the signaling contacts       5 A         • at AC / maximum       5 A         • at AC / maximum       0.1 A         Supply voltage, current / or the supply on type of voltage / of the supply voltage       AC         Supply voltage / 2 / Rated value       80 276 V         Supply voltage / 2 / Rated value       BC	• C-PLUG	Yes
• at AC / Rated value       276 V         • at DC / Rated value       230 V         Operating current / of the signaling contacts       5 A         • at AC / maximum       5 A         • at DC / maximum       0.1 A         Supply voltage, current consumption, power loss       7ype of voltage supply / redundant power supply unit         Yes       7ype of voltage supply redundant power supply unit         Yes       230 V         Supply voltage       AC         Supply voltage       200 V         • at AC       230 V         • at AC       74 C         • at AC       720 V         • at AC / rated value       80 276 V         Supply voltage / 2 / f the supply voltage       DC         Supply voltage / 2 / f the supply voltage       DC         Consumed current / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       •	Signal inputs/outputs	
at DC / Rated value       230 V         Operating current / of the signaling contacts       5 A         • at DC / maximum       0.1 A         Supply voltage, current consumption, power loss       7         Type of voltage is upply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage       at AC         at AC       230 V         e at AC       230 V         supply voltage / of the supply voltage       AC         supply voltage / at AC       230 V         e at AC / nated value       80 276 V         Supply voltage / 2 / Rated value       BC         Type of voltage / 2 / f the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at DC / at 230 V       42 W         Ambient conditions	Operating voltage / of the signaling contacts	
Operating current / of the signaling contacts       5 A         • at AC / maximum       0.1 A         Supply voltage, current consumption, power loss       Type of voltage supply / redundant power supply unit         Type of voltage supply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage       at AC         • at AC       230 V         • at AC       rated value         Type of voltage / 2 / Rated value       80 276 V         Supply voltage / 2 / of the supply voltage       DC         Supply voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       •         • at AC / at 230 V       42 W         • at BC / at 250 V       42 W         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • Note       Fuse code operating temperature upper limit of +85° C permitted for 16 horos. Reduced operating temperature through the use of media modules (-40 °C to +	<ul> <li>at AC / Rated value</li> </ul>	276 V
• at AC / maximum       5 A         • at DC / maximum       0.1 A         Supply voltage, current consumption, power loss       Type of voltage supply / redundant power supply unit         Type of voltage () of the supply voltage       AC         Supply voltage       • at AC         • at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • at AC value       48 300 V         Product component / fusing at power supply input       Yees         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at C / at 230 V       42 W         • at C / at 250 V       42 W         Ambient temperature       • during operation         • during storage	• at DC / Rated value	230 V
e at DC / maximum       0.1 A         Supply voltage, current consumption, power loss         Type of voltage supply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage       AC         • at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       42 W         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -40 +75 °C         • Note       Extended temperature upper limit of +85° C permitted for 16         • Note       Extended temperature upper limit of +85° C permitted for 16         • Note       For C)       SC	Operating current / of the signaling contacts	
Supply voltage, current consumption, power loss         Type of voltage (of the supply voltage         AC         Supply voltage         • at AC         • at AC (rated value         Supply voltage / 2 / Rated value         Type of voltage / 2 / of the supply voltage         DC         Supply voltage / 2 / Rated value         Type of voltage / 2 / of the supply voltage         DC         Supply voltage / 2 / of the supply voltage         DC         Supply voltage / at DC         • rated value         Product component / fusing at power supply input         Yes         Fuse protection type / at input for supply voltage         Onsumed current / maximum         0.7 A         Power loss [W]         • at AC / at 230 V         • at DC / at 250 V         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         • Note         Andel temperature upper limit of +85° C permitted for 16         hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)	• at AC / maximum	5 A
Type of voltage supply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage       at AC         • at AC       230 V         • at AC rated value       80 276 V         Supply voltage / 2 / Rated value       BC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       5°C         • DC / a	• at DC / maximum	0.1 A
Type of voltage supply / redundant power supply unit       Yes         Type of voltage / of the supply voltage       AC         Supply voltage       at AC         • at AC       230 V         • at AC rated value       80 276 V         Supply voltage / 2 / Rated value       BC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       5°C         • DC / a	Supply voltage autrept concurrentian neuronation	
Type of voltage / of the supply voltage       AC         Supply voltage       230 V         • at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       42 W         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • during storage       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		Ves
Supply voltage       230 V         • at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       •         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient temperature       •         • during operation       -40 +70 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
• at AC       230 V         • at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at AC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         • at DC / at 250 V       40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
• at AC / rated value       80 276 V         Supply voltage / 2 / Rated value       DC         • Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       •         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		230 V
Supply voltage / 2 / Rated value         • Type of voltage / 2 / of the supply voltage         Supply voltage / at DC         • rated value         • rated value         Product component / fusing at power supply input         Fuse protection type / at input for supply voltage         3.15 A / 250 V         Consumed current / maximum         0.7 A         Power loss [W]         • at AC / at 230 V         • at DC / at 250 V         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         • Note		80 276 V
• Type of voltage / 2 / of the supply voltage       DC         Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       -         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       -         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
Supply voltage / at DC       220 V         • rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       42 W         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       -40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		DC
• rated value       48 300 V         Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       -         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       -         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
Product component / fusing at power supply input       Yes         Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       42 W         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       -40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
Fuse protection type / at input for supply voltage       3.15 A / 250 V         Consumed current / maximum       0.7 A         Power loss [W]       • at AC / at 230 V         • at DC / at 250 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
Consumed current / maximum       0.7 A         Power loss [W]       42 W         • at AC / at 230 V       42 W         • at DC / at 250 V       42 W         Ambient conditions       42 W         Ambient temperature       -40 +70 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
• at AC / at 230 V42 W• at DC / at 250 V42 WAmbient conditionsAmbient temperature• during operation-40 +70 °C• during storage• during transport-40 +85 °C• NoteExtended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
• at DC / at 250 V       42 W         Ambient conditions       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • Note       Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)	Power loss [W]	
Ambient conditions         Ambient temperature         • during operation         • during storage         • during storage         • during transport         • Note         Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)	• at AC / at 230 V	42 W
Ambient temperature         • during operation         • during storage         • during storage         • during transport         • Note         Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)	• at DC / at 250 V	42 W
Ambient temperature         • during operation         • during storage         • during storage         • during transport         • Note         Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
• during operation-40 +70 °C• during storage-40 +85 °C• during transport-40 +85 °C• NoteExtended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
<ul> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>Note</li> <li>Note</li> <li>Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)</li> </ul>		-40 +70 °C
<ul> <li>during transport</li> <li>-40 +85 °C</li> <li>Note</li> <li>Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)</li> </ul>		
• Note Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C)		
Relative humidity	• Note	hours. Reduced operating temperature through the use of media modules (-40 $^\circ$ C to +70 $^\circ$ C) or SFP plug-in transceivers (-40 $^\circ$ C to
	Relative humidity	

<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
Protection class IP	IP20

Design, dimensions and weights	
Design	19" rack
Number of modular height units / relating to 19-inch	1
cabinet	
Width	483 mm
Height	44 mm
Depth	305 mm
Net weight	7 kg
Mounting type	When used in shipbuilding, the device must be secured in the 19"
	rack at four points
<ul> <li>19-inch installation</li> </ul>	Yes
<ul> <li>35 mm DIN rail mounting</li> </ul>	No
wall mounting	No
<ul> <li>S7-300 rail mounting</li> </ul>	No
• S7-1500 rail mounting	No

Product features, product functions, product components / general	
Cascading in the case of a redundant ring / at	100
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration, engineering	
Product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
<ul> <li>MIB support</li> </ul>	Yes
• TRAPs via email	Yes
<ul> <li>Configuration with STEP 7</li> </ul>	Yes
• RMON	Yes
Port mirroring	Yes
multiport mirroring	Yes
• CoS	Yes
<ul> <li>PROFINET IO diagnosis</li> </ul>	Yes
PROFINET conformity class	В
Product function / switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes

• FTP	Yes
• BOOTP	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes
Identification & maintenance function	
<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul> <li>I&amp;M1 – higher-level designation/location</li> </ul>	Yes
designation	
Product functions / Diagnostics	
Product function	
Port diagnostics	Yes
Statistics Packet Size	Yes
<ul> <li>Statistics packet type</li> </ul>	Yes
Error statistics	Yes
• SysLog	Yes
Product functions / VLAN	
Product functions / VLAN Product function	
	Yes
Product function	Yes No
Product function <ul> <li>VLAN - port based</li> </ul>	
Product function • VLAN - port based • VLAN - protocol-based	No
Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based	No No
Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic	No No Yes
Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic Number of VLANs / maximum	No No Yes 255
Product function  VLAN - port based  VLAN - protocol-based  VLAN - IP-based  VLAN dynamic  Number of VLANs / maximum  Number of VLANs - dynamic / maximum	No No Yes 255 255
Product function • VLAN - port based • VLAN - protocol-based • VLAN - IP-based • VLAN dynamic Number of VLANs / maximum Number of VLANs - dynamic / maximum Protocol / is supported / GVRP	No No Yes 255 255
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP	No No Yes 255 255
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function	No Yes 255 255 Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client	No         No         Yes         255         255         Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client         • DHCP Option 82	No         No         Yes         255         255         Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client         • DHCP Option 82         • DHCP Option 66	No         No         Yes         255         255         Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67	No         No         Yes         255         255         Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67	No         No         Yes         255         255         Yes
Product function         • VLAN - port based         • VLAN - protocol-based         • VLAN - IP-based         • VLAN dynamic         Number of VLANs / maximum         Number of VLANs - dynamic / maximum         Protocol / is supported / GVRP         Product functions / DHCP         Product function         • DHCP client         • DHCP Option 82         • DHCP Option 66         • DHCP Option 67	No         No         Yes         255         255         Yes         Yes

<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
<ul> <li>RSTP big network support</li> </ul>	Yes
• LACP	Yes
Product functions / Security	
Product function	
ACL - MAC-based	Yes
<ul> <li>ACL - port/MAC-based</li> </ul>	Yes
• IEEE 802.1x (radius)	Yes
<ul> <li>Broadcast/Multicast/Unicast Limiter</li> </ul>	Yes
<ul> <li>broadcast blocking</li> </ul>	Yes
Protocol / is supported	
• SSH	Yes
Product functions / time	
Product function	
<ul> <li>SICLOCK support</li> </ul>	Yes
Protocol / is supported	
• NTP	Yes
• SNTP	Yes
<ul> <li>IEEE 1588 profile default</li> </ul>	Yes
Standards, specifications, approvals Standard	
• for hazardous zone	
• for safety / from CSA and UL	UL 508, CSA C22.2 No. 142-M1987
<ul> <li>for hazardous zone / from CSA and UL</li> </ul>	No

• for emitted interference	EN 61000-6-4:2007 (Class A)
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2:2005
MTBF	20 у
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standard	
• for EMC	IEC 61850, IEEE 1613
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
• IEC 61850-3	Yes
<ul> <li>KC approval</li> </ul>	Yes
Standards, specifications, approvals / marine classi	fication
Marine classification association	
• Bureau Veritas (BV)	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
Further information / Internet-Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
<ul> <li>to website: Image database</li> </ul>	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	
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