Data sheet 6GK5324-0GG10-3HR2

SCALANCE XR324-12M; managed IE switch, 19" rack; 12x 100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-PLUG in scope of supply; Power supply 230 V AC; Ports at the back.



product type designation	SCALANCE XR324-12M
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
interfaces / for communication / integrated	
number of 100 Mbit/s ST(BFOC) ports	
• for multimode	24
number of 100 Mbit/s SC ports	
for multimode	24
number of 1000 Mbit/s LC ports	
 for multimode 	24
for single mode (LD)	24
interfaces / other	
number of electrical connections	
 for operator console 	1
for signaling contact	1
• for media module	12
for power supply	1
type of electrical connection	
 for operator console 	RJ11
 for signaling contact 	2-pole terminal block
for power supply	2-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	
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	
supply voltage / 1 / rated value	230 V
power loss [W] / 1 / rated value	50 W
supply voltage / 1 / rated value	85 264 V
 consumed current / 1 / maximum 	0.8 A
 type of electrical connection / 1 / for power supply 	2-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
 fuse protection type / 1 / at input for supply voltage 	3.15 A / 250 V
ambient conditions	

antibent temperature • during poteration • during storage • during stransport • note Reduced operating temperature through the use of media modules (-40 +85 °C		
• during storage • during trasport • note • curing trasport • note • curing trasport • note • relative humidity • at 25 °C / without condensation / during operation / maximum operations in the vertical position, the maximum operating temperature is reduced to ±50 °C. I 20 design, dimensions and weights design 19° rack design 19°	ambient temperature	
• during transport • during transport • note • no		-40 +70 °C
* note* **Reduced operating temperature through the use of medial modules (#40 "Ci to 5" Ci)" Ci)" Cis PS (#40" Cis 16" Cis 1	during storage	-40 +85 °C
relative humidity • at 25 °C / without condensation / during operation / maximum persiting temperature is reduced to +50 °C. • 26 °C / without condensation / during operation / maximum protection class IP ### ### ### ### ### ### ### ### ### #	 during transport 	-40 +85 °C
relative humidity * at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights design mumber of modular height units / relating to 19-inch cabinet width height 44 mm depth 5,9 kg fastening method **Intervention of part of modular height units / relating to 19-inch cabinet **When used in shipbuilding, the device must be secured in the 19" rack **Intervention of modular height units / relating to 19-inch cabinet **When used in shipbuilding, the device must be secured in the 19" rack **Intervention of th	• note	Reduced operating temperature through the use of media modules (-40
relative humidity * at 25 °C / without condensation / during operation / maximum protection class IP design, dimonsions and weights design dimonsions design dimonsions and weights design dimonsions design dimons		
## at 25 °C / without condensation / during operation / maximum protection class IP P20		
maximum protection class IP IP20 design, dimensions and weights design dimensions and weight on 19 'rack number of modular height units / relating to 19-inch cabinet width 483 mm height 44 mm depth 305 mm net weight 5.9 kg product feature / conformal coating Yes fastening method When used in shipbuilding, the device must be secured in the 19" rack at four points • 19-inch installation Yes fastening method When used in shipbuilding, the device must be secured in the 19" rack at four points • 19-inch installation Yes • 35 mm top hat DIN rail mounting No • 35 mon top hat DIN rail mounting No • S7-300 rail mounting No • S7-1500 rail mounting No product fastures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration inten of <-0, 3-8 cascading in cases of star topology product function / management, configuration, engineering product function • CLI Ves • Web-based management Yes • MIB support Yes • CRAP's wenell Yes • PROFINET IO diagnosis Yes • PROFI	relative humidity	
maximum protection class IP IP20 design, dimensions and weights design dimensions and weight on 19 'rack number of modular height units / relating to 19-inch cabinet width 483 mm height 44 mm depth 305 mm net weight 5.9 kg product feature / conformal coating Yes fastening method When used in shipbuilding, the device must be secured in the 19" rack at four points • 19-inch installation Yes fastening method When used in shipbuilding, the device must be secured in the 19" rack at four points • 19-inch installation Yes • 35 mm top hat DIN rail mounting No • 35 mon top hat DIN rail mounting No • S7-300 rail mounting No • S7-1500 rail mounting No product fastures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration inten of <-0, 3-8 cascading in cases of star topology product function / management, configuration, engineering product function • CLI Ves • Web-based management Yes • MIB support Yes • CRAP's wenell Yes • PROFINET IO diagnosis Yes • PROFI	 at 25 °C / without condensation / during operation / 	95 %
design, dimensions and weights design number of modular height units / relating to 19-inch cabinet width 483 mm height 44 mm depth Ash met weight 59 kg product feature / conformal coating Yes fastening method 49-inch installation 19-inch in		
design number of modular height units / relating to 19-inch cathnet width Height 44 mm depth 305 mm net weight 5-9 kg product feature / conformal coating fastening method 44 mm depth 305 mm net weight 7-9 kg product feature / conformal coating 48 when used in shipbuilding, the device must be secured in the 19" rack at four points 49 mm top hat DIN rall mounting 40 mm top hat DIN rall mounting 5-8 mm top hat DIN rall mounting 6-8 mm top hat DIN rall mounting 7-8 mm top hat DIN rall mounting 7-8 mm top hat DIN rall mounting 8-8 mm top hat DIN rall mounting 9-8 mm top hat DIN rall mountin	protection class IP	IP20
number of modular height units / relating to 19-inch cabinet width	design, dimensions and weights	
depth 44 mm depth 305 mm net weight 5.9 kg product feature / conformal coating Yes fastening method at four points • 19-inch installation Yes • 10-inch installation Yes • 19-inch installation Yes • 10-inch installation •	design	19" rack
width height 44 mm leight 44 mm depth 305 mm net weight 5.9 kg product feature / conformal coating Yes fastening method When used in shipbuilding, the device must be secured in the 19° rack at four points 19-inch installation Yes 35 mm top hat DIN rail mounting No wall mounting No S-300 rail mounting No S-37-500 rail mounting No S-37-500 rail mounting No S-37-500 rail mounting No Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3%-8 cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product functions / management Yes Milb support Yes SIRAPs via email Yes - onfiguration with STEP 7 - RMON Yes - ont mirroring Yes - ontigrout mirroring Yes - CoS - PROFINET conformity class B - product function / switch-managed - Telnet Yes - HTTP Yes - HTTP Yes - HTTP - HT	number of modular height units / relating to 19-inch	1
height depth 305 mm net weight 5.9 kg product teature / conformal coating Yes fastening method at four points Yes fastening method at four points Yes wall mounting No wall mounting No S7-300 rail mounting No No No S7-300 rail mounting No No No S7-300 rail mounting No	cabinet	
depth net weight product feature / conformal coating fastening method • 19-inch installation • 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • No • S7-400 rail mounting • No • S7-300 rail mounting • No • S7-400 rail mounting • No • S9-40 rail mounting •	width	483 mm
net weight product feature / conformal coating Yes fasterning method • 19-inch installation Yes • 35 mm top hat DIN rail mounting No • wall mounting No • \$7-300 rail mounting No • \$7-300 rail mounting No • \$7-300 rail mounting No • \$7-300 rail mounting No • \$7-300 rail mounting No • \$7-500 rail mounting And • \$7-500 rail mounting • \$7-500 rail mount	height	44 mm
product feature / conformal coating fastening method • 19-inch installation • 38 mm top hat DIN rail mounting • 57-300 rail mounting • 57-300 rail mounting product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of 14-0, 31-5 cascading in cases of star topology product functions / management, configuration, engineering product functions / management • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMMON • port mirroring • CUS • multiport mirroring • CUS • multiport mirroring • CUS • PROFINET IO diagnosis PROFINET IO molagnosis	depth	305 mm
fastening method • 19-inch installation • 35 mm top hat DIN rall mounting • wall mounting • S7-300 rail mounting • S7-300 rail mounting • S7-300 rail mounting • S7-300 rail mounting • S7-1500 rail mounting product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\(\cdot \) -0.3"-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • Web-based management • Wes • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • COS • PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported • Telnet • TEINE • T	net weight	5.9 kg
at four points 19-inch installation 35 mm top hat DIN rail mounting wall mounting S7-300 rail mounting S7-300 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of \(^{-0.3\text{-S}}\) cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product function CLI Yes web-based management Yes MIB support TRAPs via email configuration with STEP 7 RMON Popt mirroring Yes multiport mirroring TYes PROFINET IO diagnosis PROFINET Conformity class B product function / switch-managed Telnet HTTP HTTPS Telnet HTTP Yes TFTP SPA GMRP GMRP SNMP Y SNMP Y2 SNMP Y	product feature / conformal coating	Yes
19-inch installation 35 mm top hat DIN rail mounting No vall mounting S7-300 rail mounting S7-300 rail mounting S7-1500 rail mounting No S7-1500 rail mounting No S7-1500 rail mounting No S7-1500 rail mounting No PROFINET no diagnosis PROFINET lo diagnosis PROFINET conformity class protocol / is supported TETP HTTP HTTP HTTP SP GMRP GMRP GMRP SNMP v2 SNMP v2 SNMP v2 SNMP v2 SNMP v3 SNMP v6 SNMP v7 SNMP v7 SNMP v6 SNMP v6 SNMP v7 SNMP v7 SNMP v6 SNMP v7 SNMP v7 SNMP v7 SNMP v6 SNMP v7 SNMP v8 SNMP v7 SNMP v8 SNMP v7 SNMP v8 SNMP v8 SNMP v8 SNMP v8 SNMP v9	fastening method	
• 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting • S7-1500 rail mounting product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0-3.3-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • COS • PROFINET IO diagnosis PROFINET TO diagnosis PROFINET TO onformity class product function / switch-managed • Telnet • HTTP • Telnet • HTTP • Telnet • HTTP • Telnet • HTTP • FTP • FTP • FTP • FTP • FTP • GMRP • BOOTP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Yes • IGMP (snooping/querier)		
• wall mounting • S7-300 rail mounting • S7-500 rail mounting • S7-500 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <1-0.31-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • Web-based management • CLI • Web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • COS • PROFINET IO diagnosis PROFINET IO diagnosis PROFINET to disposis PROFINET to disposid product function / switch-managed protocol / is supported • Telnet • HTTP • HTTP • HTTP • HTTP • BOOTP • GMRP • DCP • LLDP • SNMP ∨1 • SNMP ∨2 • SNMP ∨2 • SNMP ∨3 • IGMP (snooping/querier) • Yes • SNMP ∨3 • IGMP (snooping/querier) • Yes • SNMP ∨3 • IGMP (snooping/querier) • Yes • IGMP (snooping/querier)		Yes
• S7-300 rail mounting • S7-1500 rail mounting Product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\->		No
• S7-1500 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-\(\to \cdot	wall mounting	No
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\-0.31~s cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • PROFINET IO diagnosis • PROFINET IO diagnosis • PROFINET conformity class product function / switch-managed • Telnet • Telnet • TEIP • TEIP • TEIP • TEIP • SUPP	 S7-300 rail mounting 	No
cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • Cos • PROFINET IO diagnosis • PROFINET conformity class product function / switch-managed protocol / is supported • Teinet • HTTP • HTTP • HTTP • HTTP • HTTP • SOOTP • GMRP • DCP • LLLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • Teinet • IGMP (snooping/querier) • Tes • IGMP (snooping/querier) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes	S7-1500 rail mounting	No
reconfiguration time of <\-0.3\-s cascading in cases of star topology product functions / management, configuration, engineering product function • CLI • web-based management • MIB support • TRAPs via email • configuration with STEP 7 • RMON • port mirroring • multiport mirroring • COS • PROFINET I O diagnosis PROFINET conformity class product function / switch-managed • Telnet • HTTP • HTTPS • HTTP • HTTPS • SOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) • IGMP (supported) • Tes • SNMP v3 • IGMP (snooping/querier) • Tes • IGMP (snooping/querier)	product features, product functions, product components	l general
product function CLI Yes • 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 PROFINET conformity class B product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTP Yes • FFP Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SMMP v1 Yes • SMMP v3 Yes • IGMP (snooping/querier) Yes	cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
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 Telnet Telnet HTTP HTTP HTTP HTTP STEP BOOTP GMRP GMRP CCP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes Ye	cascading in cases of star topology	any (depending only on signal propagation time)
CLI web-based management Yes MIB support TRAPs via email Configuration with STEP 7 RMON port mirroring PROFINET IO diagnosis PROFINET IO diagnosis PROFINET conformity class Product function / switch-managed protocol / is supported Telnet Telnet HTTP HTTP HTTP HTTP HTTP HGMRP GMRP GMRP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes PROFINET on managed Yes SNMP v3 IGMP (snooping/querier) Yes HTTP Yes SNMP v3 IGMP (snooping/querier) Yes SNMP v3 Yes Yes SNMP v3 IGMP (snooping/querier) Yes SNMP v3 Yes Yes Yes SNMP v3 Yes Yes SNMP v3 Yes Yes SNMP v3 Yes IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes SNMP v3 Yes Yes SNMP v3 Yes Yes SNMP v3 Yes Yes Yes SNMP v3 Yes Yes Yes SNMP v3 Yes Yes Yes SNMP v3 Yes Yes SNMP v3 Yes Yes Yes Yes Yes Yes SNMP v3 Yes	product functions / management, configuration, engineeri	ng
web-based management	product function	
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis Yes PROFINET conformity class PROFINET conformity class B product function / switch-managed Yes PHTTP HTTP HTTPS HTTPS FFP FFP GMRP GMRP LLDP SNMP v1 SNMP v2 IGMP (snooping/querier) Yes 	• CLI	Yes
 MIB support TRAPs via email configuration with STEP 7 RMON port mirroring multiport mirroring CoS PROFINET IO diagnosis Yes PROFINET conformity class PROFINET conformity class B product function / switch-managed Yes PHTTP HTTP HTTPS HTTPS FFP FFP GMRP GMRP LLDP SNMP v1 SNMP v2 IGMP (snooping/querier) Yes 	 web-based management 	Yes
■ TRAPs via email ■ configuration with STEP 7 ■ RMON ■ port mirroring ■ multiport mirroring ■ cos ■ multiport mirroring ■ Yes ■ PROFINET IO diagnosis ■ PROFINET conformity class ■ product function / switch-managed protocol / is supported ■ Telnet ■ HTTP ■ HTTP ■ HTTPS ■ HTTP ■ HTTP ■ HTTP ■ SMBP ■ BOOTP ■ GMRP ■ DCP ■ LLDP ■ SNMP v1 ■ SNMP v2 ■ SNMP v3 ■ IGMP (snooping/querier) ■ Yes ■ IGMP (snooping/querier) ■ Yes ■ IGMP (snooping/querier) ■ Yes ■ SMBP v4 ■ Yes ■ IGMP (snooping/querier) ■ Yes ■ IGMP (snooping/querier) ■ Yes ■ SMBP v4 ■ SMBP v4 ■ SMBP v4 ■ IGMP (snooping/querier) ■ Yes ■ IGMP (snooping/querier)	-	
 RMON Port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class PROFINET conformity class Product function / switch-managed Telnet Telnet HTTP HTTPS HTTPS FTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes PYES Yes SMMP v2 IGMP (snooping/querier) 	• •	
 RMON Port mirroring multiport mirroring CoS PROFINET IO diagnosis PROFINET conformity class PROFINET conformity class Product function / switch-managed Telnet Telnet HTTP HTTPS HTTPS FTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes PYES Yes SMMP v2 IGMP (snooping/querier) 		
 port mirroring multiport mirroring Cos Yes PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes protocol / is supported Telnet Yes HTTP HTTPS Yes TFTP Yes FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes 	_	
 multiport mirroring CoS PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes protocol / is supported Telnet HTTP HTTPS HTTPS Yes TFTP Yes FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes PYes Yes Yes IGMP (snooping/querier) 		
● PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes protocol / is supported Yes ● Telnet Yes ● HTTP Yes ● HTTPS Yes ● FTP Yes ● BOOTP Yes ● GMRP Yes ● DCP Yes ● LLDP Yes ● SNMP v1 Yes ● SNMP v2 Yes ● SNMP v3 Yes ● IGMP (snooping/querier) Yes		Yes
PROFINET conformity class B product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP Yes • BOOTP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes		
product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes	• CoS	Yes
protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • TFTP • FTP • BOOTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes Ye	CoS PROFINET IO diagnosis	Yes Yes
 Telnet HTTP Yes HTTPS Yes TFTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes 	Cos PROFINET IO diagnosis PROFINET conformity class	Yes Yes B
 HTTP HTTPS Yes TFTP Yes FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed	Yes Yes B
 HTTPS TFTP Yes FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported	Yes Yes B Yes
 TFTP FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet	Yes Yes B Yes Yes
 FTP BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP	Yes Yes B Yes Yes Yes
 BOOTP GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS	Yes Yes B Yes Yes Yes Yes
 GMRP DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP	Yes Yes B Yes Yes Yes Yes Yes Yes Yes Yes
 DCP LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP FTP	Yes Yes B Yes Yes Yes Yes Yes Yes Yes Yes Yes
 LLDP SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP FTP BOOTP	Yes Yes B Yes
 SNMP v1 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP FTP BOOTP GMRP	Yes Yes B Yes
 SNMP v2 SNMP v3 IGMP (snooping/querier) Yes Yes 	Cos PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP FTP BOOTP GMRP DCP	Yes Yes B Yes
 SNMP v3 IGMP (snooping/querier) Yes 	CoS PROFINET IO diagnosis PROFINET conformity class product function / switch-managed protocol / is supported Telnet HTTP HTTPS TFTP FTP BOOTP GMRP DCP LLDP	Yes Yes B Yes
• IGMP (snooping/querier) Yes	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	Yes Yes B Yes
	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 Yes B Yes
identification & maintenance function	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 Yes B Yes
	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 IGMP (snooping/querier)	Yes Yes B Yes

• I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	V
• port diagnostics	Yes
statistics Packet Size	Yes
statistics packet type	Yes Yes
error statistics Syclog	Yes
SysLog product functions / VLAN	res
product function ■ VLAN - port based	Yes
VLAN - port based VLAN - protocol-based	No
VLAN - IP-based	No
VLAN dynamic	Yes
number of VLANs / maximum	255
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	
product function	
• ring redundancy	Yes
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	Yes
 high speed redundancy protocol (HRP) with standby redundancy 	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
 media redundancy protocol (MRP) with redundancy manager 	Yes
 redundancy procedure STP 	Yes
 redundancy procedure RSTP 	Yes
redundancy procedure MSTP	Yes
 Parallel Redundancy Protocol (PRP)/operation in the PRP-network 	Yes
Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
passive listening	Yes
protocol / is supported	V
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
MSTP PSTP big network support	Yes Yes
 RSTP big network support LACP 	Yes
product functions / security	
product functions / security product function	
ACL - MAC-based	Yes
ACL - IMAC-based ACL - port/MAC-based	Yes
• IEEE 802.1x (radius)	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 safety / from CSA and UL 	UL 508, CSA C22.2 No. 142-M1987
for emitted interference	EN 61000-6-4:2007 (Class A)
for interference immunity	EN 61000-6-2:2005
MTBF	15 y
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environm	nents
standard / for hazardous zone	
• from CSA and UL	No
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
KC approval	Yes
 railway application in accordance with EN 50155 	No
standards, specifications, approvals / marine classification	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/tia-selection-tool
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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last modified:

7/8/2022