6GK5204-0BA00-2AF2

Data sheet



SCALANCE XF204, flat, Managed IE switch, 4x 10/100 Mbit/s RJ45 ports, Error signaling contact with set pushbutton, Redundant power supply, PROFINET IO device network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-plug optional.

product type designation	SCALANCE XF204
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / maximum configuration for mod	dular devices
number of electrical ports / maximum	4
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	4
interfaces / other	
number of electrical connections	
• for signaling contact	1
for power supply	1
type of electrical connection	
 for signaling contact 	2-pole terminal block
for power supply	4-pole terminal block
design of the removable storage	
• C-PLUG	Yes
signal inputs/outputs	
operating voltage / of the signaling contacts	
at DC / rated value	24 V
operational current / of the signaling contacts	
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage / 1 / of the supply voltage	DC
supply voltage / 1 / rated value	24 V
power loss [W] / 1 / rated value	2.64 W
supply voltage / 1 / rated value	18 32 V
consumed current / 1 / maximum	0.11 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
 fuse protection type / 1 / at input for supply voltage 	1.1 A / 33 V
ambient conditions	
ambient temperature	
during operation	-40 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
• note	If the IE-Switch XF-200 is installed horizontally, a maximum ambient temperature of +40 °C is permitted
relative humidity	

menimum protection class IP IP20 IP30	• at 25 °C / without condensation / during operation /	95 %
design Flat with 75 mm height 125 mm order wight 0.25 kg fastening method • 3 mm to veight 0.25 kg statening method • 3 mm to tweight 0.25 kg statening method • 3 mm to put to that DNI rail mounting No • 37-300 rail mounting No • 47-300 rail mounting No • 47-300 rail mounting No • 4-40-30-se • 4-40-30-s	maximum	
Flat width	protection class IP	IP20
width 175 mm 125 mm	design, dimensions and weights	
height depth 73 mm 125 mm	design	Flat
depth net weight net weight abstraing method * Si sm top hat DIN rail mounting * No * Si sm top hat DIN rail mounting * No * Si sm top hat DIN rail mounting * No * Si sm top hat DIN rail mounting * No * Si sm top hat DIN rail mounting * No * Product fastures, product functions, product components / general * cascading in case of a redundant ring / at reconfiguration time of * Si sm top hat DIN rail mounting * Si sm top hat DIN rail mounting * Pes * Call * Ves * Life Support * TaRPs via email * Yes * Life Support * PROFINET I'D diagnosis * PROFINET I'D diagnos	width	75 mm
net weight asterning nethod as 5m m top hat DN rail mounting No As 3m mounting No As 7-500 rail mounting No As 7-500 rail mounting No product faitures, product functions, product components / general assessing in the case of a redundant ring / at reconfiguration min of -(-0.2-b.** casecoding in cases of star topology product ffunctions / montagement, configuration, engineering product functions / montagement A web-based management A web -based manage	height	125 mm
lastening method - 35 mm top hat DIN rail mounting - 37-300 rail mounting - 37-300 rail mounting - 37-300 rail mounting - 37-300 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring/ at reconfiguration time of <0-0.3% cascading in the case of a redundant ring/ at reconfiguration of time of <0-0.3% cascading in case of star topology product functions / management, configuration, engineering product functions / management - Coll - vox-based management - Ves - Mill support - RAP's via email - Ves - Interpretation with STEP 7 - optimirroring - via with IRT / PROFINET IO switch - with IRT / PROFINET IO diagnosis - PROFINET rold diagnosis - PROFINET rold rained with stars - PROFINET rold recommended - Telent - Interpretation / switch managed - Telent	depth	73 mm
Si mul top hat DIN rail mounting No Si7-1500 rail mounting No Si7-1500 rail mounting No product finatures, product functions, product components / general caseading in the case of a redundant ring / at reconfiguration are of <-0.3-es caseading in cases of start topology product function CLI Yes caseading in cases of start topology product function CLI Yes Web based management Configuration, engineering product function CLI Yes Web based management Yes Willing support Yes Ontify in the case of a redundant ring / at reconfiguration CLI Yes Web based management Yes Wes Ontify in the case of a redundant ring / at reconfiguration, engineering product function CLI Yes Web based management Yes Ontify in the case of a redundant ring / at reconfiguration, engineering Product function / wes Ontify in the case of a redundant ring / at reconfiguration, engineering Product function / wes PROFINE conformity class Ontify in the redundancy Product function / switch managed Yes PROFINE conformity class Ontify in the redundancy Product function / wes No No No Ontify in the redundancy Yes SIMMP v2 SIMMP v3 V48 SIMMP v3 V48 V48 SIMMP v4 SIMMP v4 SIMMP v4 SIMMP v4 SIMMP v5 SIMMP v5 SIMMP v5 SIMMP v5 SIMMP v5 SIMMP v6 SIMMP v6 SIMMP v6 SIMMP v6 SIMMP v7 SIMMP v7 SIMMP v8 SIMMP v8 SIMMP v8 SIMMP v8 SIMMP v8 SIMMP v9 SIM	net weight	0.25 kg
**ST-300 rail mounting	fastening method	
S7-300 rall mounting S7-300 rall mounting S7-300 rall mounting Product Instruss, product functions, product components / general Cascading in the case of a redundant ring / at reconfiguration of s-10-3 reconstructions of secondary functions CLI SYSTEM SYST	 35 mm top hat DIN rail mounting 	Yes
- \$57-1500 rail mounting product fountions, product components / general product features, product functions, product components / general product features, product functions / at reconfiguration time of \$4-0.3*** cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering product functions / management	wall mounting	No
product finatures, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration of v1-0-0-15 cascading in cases of star topology product functions / management, configuration, engineering product functions of v1-0-0-15 CLI veb based management Ves Mill support Ves Onfiguration with STEP 7 optor mirroring vmill intro firmoring vmill intro firmoring vmill intro firmoring Ves Onfiguration with STEP 7 optor mirroring Ves Onfiguration vith STEP 7 optor vith	 S7-300 rail mounting 	No
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product functions / management. configuration, engineering product function CLI * CLI * Web-based management * Wes * Mills support * Configuration with STEP 7 * Ses * Configuration with STEP 7 * port mirroring * ocn function function function * with IRT / PROFINET IO switch * PROFINET IO diagnosis PROFINET conformity class product function / switch-managed * Teinet * Teine * Teinet * Teinet * Teinet * Teinet * Teinet * Teinet * T		50
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web-based management MIB support Yes TRAPs via email configuration with STEP 7 yes port mirroring with IRT / PROFINET IO switch	•	Yes
MIB support TRAPs via email Configuration with STEP 7 Pes Port mirroring PROFINET IO diagnosis PROFINET conformity class cl		
TRAPs via email configuration with STEP 7 pot millmroring multiport mirroring with IRT / PROFINET IO switch PROFINET IO diagnosis PROFINET conformity class PROFINET conformity class B product function / switch-managed Telnet Telnet Telnet Telnet TETP Tes HTTPS TETP Tes BOOTP BOOTP COND SNMP v1 SNMP v2 SNMP v1 SNMP v3 Jes SNMP v3 Jes SNMP v3 Jes SNMP v3 Jes SNMP v4 SNMP v3 Jes SNMP v4 SNMP v4 SNMP v5 Jes SNMP v4 SNMP v5 Jes SNMP v5 Jes SNMP v6 SNMP v6 SNMP v6 SNMP v7 SNMP v8 Jes	-	Yes
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PROFINET conformity class product function / switch-managed Protocol / is supported • Telnet • Telnet • HTTP • Yes • HTTPS • HTTP • Yes • HTTP • Yes • FTP • SOOTP • DCP • LLDP • SNMP v1 • SNMP v2 • SNMP v2 • SNMP v3 identification & maintenance function • I&MO - device-specific information • I&MO - device-specific information • I&M1 - higher level designation/location designation Product functions / diagnostics product function • port diagnostics • statistics Packet Size • statistics Packet Size • error statistics • Product function • DHCP client Product function • DHCP client Product function • Ing redundancy Product function • Ing redundancy • Ingli speed redundancy Protocol (HRP)	PROFINET IO diagnosis	Yes
product function / switch-managed protocol / is supported • Telnet Yes • HTTP Yes • HTTP Yes • HTTP Yes • TFTP Yes • FTP Yes • DOOTP No • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • Identification & maintenance function • I&MO - device-specific information Yes • IakM1 - higher level designation/location designation product functions / diagnostics product function • port diagnostics Yes • statistics Packet Size Yes • error statistics product function • OPICP Jeint yes product functions / PHCP product functions / redundancy product functions / redundancy Protocol (HRP) Yes • high speed redundancy protocol (HRP) with redundancy Yes		
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I&M1 - higher level designation/location designation product functions / diagnostics product function		
I&M1 - higher level designation/location designation product functions / diagnostics product function	I&M0 - device-specific information	Yes
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product functions / redundancy product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy Yes	•	Yes
product function • ring redundancy • High Speed Redundancy Protocol (HRP) • high speed redundancy protocol (HRP) with redundancy Yes		
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 High Speed Redundancy Protocol (HRP) high speed redundancy protocol (HRP) with redundancy Yes Yes 	•	Yes
• high speed redundancy protocol (HRP) with redundancy Yes		

 high speed redundancy protocol (HRP) with standby redundancy 	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
 media redundancy protocol (MRP) with redundancy manager 	Yes
Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	No
passive listening	Yes
product functions / security	
protocol / is supported	
• SSH	Yes
product functions / time	
product function	
SICLOCK support	Yes
protocol / is supported	
• NTP	No
• SNTP	Yes
standards, specifications, approvals	
standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4,
USI T IVI	FM16US0205X
 for emitted interference 	EN 61000-6-4:2001 (Class A)
for interference immunity	EN 61000-6-4:2001
MTBF	48.03 a
reference code	
 according to IEC 81346-2 	KF
 according to IEC 81346-2:2019 	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standards, specifications, approvals / hazardous environments standard / for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX
	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C,
standard / for hazardous zone • from CSA and UL	0145 X
standard / for hazardous zone • from CSA and UL certificate of suitability	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes
standard / for hazardous zone • from CSA and UL certificate of suitability	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr.	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7)
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7)
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7) EN 61000-6-4:2001 Yes
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7) EN 61000-6-4:2001 Yes Yes
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50124-1	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7) EN 61000-6-4:2001 Yes Yes No
standard / for hazardous zone • from CSA and UL certificate of suitability • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking • for cULus HazLoc / as File Nr. standards, specifications, approvals / other certificate of suitability • C-Tick • KC approval • railway application in accordance with EN 50155	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4, E240480 Yes Ex nA IIC T4 Gc E240480 (NWHP, NWHP7) EN 61000-6-4:2001 Yes Yes No
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• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

to website: CAx-Download-Managerto website: Industry Online Support

http://www.siemens.com/cax https://support.industry.siemens.com

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

security information

security information

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Approvals / Certificates

General Product Approval

EMC

For use in hazardous locations

Manufacturer Declaration



Miscellaneous



ATEX-Zone 2-Declaration



For use in hazardous locations

Declaration of Conformity

<u>FM</u>

CCC-Ex



CE.

EAC



Declaration of Con-

formity

Marine / Shipping

Manufacturer Declaration









NK / Nippon Kaiji Ky-

Marine / Shipping







PROFINET-Certification



Environment

last modified:

9/22/2023

other