SIEMENS

Data sheet

6GK5204-0BA00-2AF2



SCALANCE XF204, flat, Managed IE switch, 4x 10/100 Mbit/s RJ45 ports, Error signaling contact with set button, 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 / 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
 for redundant voltage 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
Operating current / of the signaling contacts	
● at DC / maximum	0.1 A

Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
• external	24 V
• external / minimum	18 V
• external / maximum	32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	1.1 A / 33 V
Consumed current / maximum	0.11 A
Power loss [W]	
• at DC / at 24 V	2.64 W

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	
 at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP20
Design, dimensions and weights	
Design	Flat
Width	75 mm
Height	125 mm
Depth	73 mm
Net weight	0.25 kg
Mounting type	
 35 mm DIN rail mounting 	Yes

• 35 mm DIN rail mounting	Yes
wall mounting	No
• S7-300 rail mounting	No
• S7-1500 rail mounting	No

Product features, product functions, product components / general	
Cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
Cascading in cases of star topology	any (depending only on signal propagation time)

Product function Yes • Web-based management Yes • MB support Yes • TRAPs via email Yes • Configuration with STEP 7 Yes • Port mirroring Yes • multiport mirroring No • with IRT / PROFINET IO switch No • Protocol / is supported Yes • Protocol / is supported Yes • Protocol / is supported Yes • TETP Yes • Protocol / is supported Yes • TETP Yes • Protocol / is supported Yes • TETP Yes • TETP Yes • BOOTP No • DCP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes Identification & maintenance function Yes • Midd - higher-level designation/location designation/location designation/location designation/location designation/location designation/location designation/location test Product functions / Diagnostics Yes Product function Yes • Statistics packet type Yes • Statistics packet type Yes • Firor statistics Yes • Product function Yes	Product functions / management, configuration, eng	gineering
•web-based managementYes•MB supportYes•TRAPs via emailYes•Configuration with STEP 7Yes•Port minroringYes•multiport mirroringNo•with IRT / PROFINET IO switchNo•PORDFINET IO diagnosisYesPROFINET IO diagnosisYesProduct function / switch-managedYesProtocol / is supportedYes•TraffsYes•TraffsYesProtocol / is supportedYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•TraffsYes•SNMP V1Yes•SNMP V2Yes•SNMP V3Yes•SNMP V3Yes•SNMP V3Yes•SNMP V3Yes•Statistico & maintenance functionYes•I&M1 - higher-level designation/location •I&M1 - higher-level designation/location •Statistics packet typeYes•Statistics packet typeYes•Statistics packet typeYes•Error statisticsYes•Error statisticsYes•Error statisticsYes•Product function •DHCP clientYes•Product functions / redundancyYes•Product functions / redundancyYes•Product functions / redundancyYes•Product functions / redundancyYes•Product fu		
• MB supportYes• TRAPs via emailYes• Configuration with STEP 7Yes• Port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET conformity classBProduct function / switch-managedYesProtocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes• BOOTPNo• DCPYes• SMMP v3Yes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & maintenance functionYes• SMMP v3Yes• Product function / DiagnosticsYes• Source / Terror statisticsYes• Product functionYes• Error statisticsYes• Error statisticsYes• Product functionYes• Error statisticsYes• Product functionYes• Error statisticsYes• Error statisticsYes• DGCPYes• Error statisticsYes• Product functionYes• Error statisticsYes• Error statisticsYes	• CLI	Yes
InterfactYes• TRAPs via emailYes• Configuration with STEP 7Yes• Pot mirroringNo• multipot mirroringNo• with IRT / PROFINET IO switchNo• PROFINET conformity classBPROFINET conformity classBProtocol / is supportedYes• TrainetYes• HTTPYes• HTTPYes• HTTPYes• FripYes• FTPYes• FTPYes• BOOTPNo• DOPYes• SINMP v3Yes• SINMP v4Yes• SINMP v3Yes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & Sector SizeYes• Product functionYes• SIMMP v3Yes• Sististics Packet SizeYes• Forduct functionYes• Ford statisticsYes• Ford statistics Packet SizeYes• Error statisticsYes• Error statisticsYes• DHCP CleintYes• Product function / DHCPYes• Product function / PolicintYes• Product function / PolicintYes• Product function / PolicintYes• Product function / PolicintYes• Product function / DHCPYes• Product function / PolicintYes• Product function / PolicintYes• Product function / Policint <td> web-based management </td> <td>Yes</td>	 web-based management 	Yes
• Configuration with STEP 7Yes• Port mirroringNo• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET IO diagnosisBProduct function / switch-managedYesProtocol / is supportedYes• TelnetYes• TETPYes• TETPYes• TETPYes• TETPYes• DOPYes• DOPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&MU - higher-level designation/location designationYes• Product functionsYes• Statistics Packet Size • Statistics Packet Size • Error statisticsYes• Product function • DHCP clientYes• Product function • DHCPYes• Pr	MIB support	Yes
Potent mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET Conformity classBProduct function / switch-managedYesProtocol / is supportedYes• TelnetYes• TripYes• TripYes• TTPYes• TTPYes• TTPYes• TTPYes• TTPYes• TOPYes• TOPYes• TOPYes• TTPYes• TTPYes• SNMP v1Yes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• Identification & maintenance functionYes• I&MU - device-specific informationYes• Statistics Packet SizeYes• Port diagnosticsYes• Port diagnosticsYes• Statistics Packet SizeYes• Statistics Packet SizeYes• Error statisticsYes• Error statisticsYes• DHCP clientYes• Poduct functions / DHCPProduct function• DHCP clientYes• Product functionYes• Error statisticsYes• Error stat	• TRAPs via email	Yes
• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET Conformity classBProduct function / switch-managedYesProtocol / is supported-• TelnetYes• HTTPYes• HTTPYes• HTTPYes• TFIPYes• DCPYes• SIMP v1Yes• SIMP v2Yes• SIMP v3Yes• Identification & maintenance functionYes• Is&M - device-specific informationYes• Is&M - device-specific informationYes• SIMMP v3Yes• Statistics Packet SizeYes• Statistics Packet SizeYes• Statistics Packet SizeYes• Statistics Packet SizeYes• Fror statisticsYes• Product functionYes• DCPYes• Dott functions / DHCPYes• Product functionYes• Dott functions / DHCPYes• Product functionYes• DHCP clientYes• Product functionYes• DHCP clientYes• DHCP clientYes• Product function / DHCPYes• Product function / Product functionYes• Product functionYes<	 Configuration with STEP 7 	Yes
with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBProduct function / switch-managedYesProduct function / switch-managedYes• TelnetYes• TelnetYes• HTTPYes• HTTPSYes• TFTPYes• FTPYes• BOOTPNo• DCPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&M0 - device-specific informationYes• BootsYes• Statistics Packet SizeYes• Statistics packet typeYes• Statistics packet typeYes• Product functionYes• Product functionYes• Product functionYes• Statistics packet typeYes• Error statisticsYes• Product functionYes• DHCP clientYes• DHCP clientYes• Product functionYes• DHCP clientYes• Product functionYes• DHCP clientYes• Other of the of	Port mirroring	Yes
PROFINET IO diagnosisYesPROFINET conformity classBProduct function / switch-managedYesProtocol / is supportedYes• TeinetYes• HTTPYes• HTTPSYes• TFTPYes• FTPYes• BOOTPYes• SIMM v1Yes• SIMM v2Yes• SIMM v3YesIdentification & maintenance functionYes• I&M - higher-level designation/location designationYesProduct functionYes• Product functionYes• Statistics Packet Size • Fror statisticsYes• Error statisticsYesProduct function • DHCP clientYesProduct function • DHCP clientYesProduct functionYes• Product function • DHCP clientYes• Product function • DHCP clientYes• Product function • DHCP clientYes• Product function • DHCPYes• Product function • DHCPYes• Product function • DHCPYes <t< td=""><td>multiport mirroring</td><td>No</td></t<>	multiport mirroring	No
PROFINET conformity class B Product function / switch-managed Yes Protocol / is supported - • Telnet Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • TFTP Yes • BOOTP Yes • BOOTP No • DCP Yes • SIMMP v1 Yes • SIMMP v2 Yes • SIMMP v3 Yes Identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location designation Yes Product function Yes • Statistics Packet Size Yes • Statistics packet type Yes • Statistics Packet Size Yes • Error statistics Yes • Product function Yes • DHCP client Yes	 with IRT / PROFINET IO switch 	No
Product function / switch-managed Yes Protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • BOOTP No • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes Identification & maintenance function Yes • I&M0 - device-specific information Yes • BM0 - device-specific information Yes • SIMM v3 Yes Identification & maintenance function Yes • I&M1 - higher-level designation/location Yes • Statistics Packet Size Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product function Yes • Error statistics Yes Product function Yes	PROFINET IO diagnosis	Yes
Protocol / is supported • Telnet Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • TFTP Yes • EOOTP No • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes Identification & maintenance function Yes • I&MO - device-specific information Yes • SIMP v3 Yes Identification & maintenance function Yes • SIMP v3 Yes Identification & function (esignation/location designation/location designation) Yes Product functions / Diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product functions / DHCP Yes Product function Yes • DHCP client Yes	PROFINET conformity class	В
• TelnetYes• HTTPYes• HTTPSYes• TFTPYes• FTPYes• BOOTPNo• DCPYes• LDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• Identification & maintenance functionYes• I8M0 - device-specific informationYes• I8M1 - higher-level designation/locationYes• Product functionYes• Statistics Packet SizeYes• Statistics packet typeYes• Error statisticsYes• Product functionYes• DHCPYes• DHCP clientYes• Product functionYes• DHCP clientYes• Product function / DHCPYes• Product function / DHCPYes• Product function / DHCPYes• Product function / DHCPYes• DHCP clientYes• DHCP clientYes• Product function / OHCPYes• DHCP clientYes• DHCP clientYes• Product function / OHCPYes• Product function / OHCPYes <td< td=""><td>Product function / switch-managed</td><td>Yes</td></td<>	Product function / switch-managed	Yes
HTTPYesHTTPSYesHTTPSYesFTPYesBOOTPNoDCPYesLLDPYesSNMP v1YesSNMP v2YesSNMP v3YesIdentification & maintenance functionYeseignationYesProduct functions / DiagnosticsYesProduct functionYesStatistics Packet SizeYesStatistics packet typeYesProduct functions / DHCPYesProduct functions / DHCPYesProduct function / Petion / Pe	Protocol / is supported	
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• TFTPYes• FTPYes• BOOTPNo• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&MO - device-specific informationYes• I&MO - device-specific informationYes• I&MM - laignosticsYesProduct function / DiagnosticsYes• Statistics Packet SizeYes• Statistics packet typeYes• Error statisticsYesProduct function / DHCPYesProduct functionYesProduct function / DHCPYesProduct functionYesProduct functionYes• DHCP clientYesProduct function / redundancyYes	• HTTP	Yes
No.• FTPYes• BOOTPNo• DCPYes• LLDPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher-level designation/location designationYesProduct functions / DiagnosticsYes• Product function • Port diagnosticsYes• Statistics packet Size • StatisticsYes• Error statisticsYesProduct functions / DHCPYesProduct function • DHCP clientYesProduct function • DHCP clientYes	• HTTPS	Yes
No• BOOTPNo• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher-level designation/location designationYesProduct functions / DiagnosticsYes• Product function • Port diagnosticsYes• Statistics Packet Size • StatisticsYes• Error statisticsYesProduct function • DHCPYesProduct function • DHCP clientYesProduct function • DHCP clientYesProduct function • DHCP redundancyYes	● TFTP	Yes
 DCP Yes LLDP Yes SNMP v1 SNMP v2 SNMP v3 Yes Identification & maintenance function I&M0 - device-specific information I&M0 - device-specific information Yes Identifications / Diagnostics Product functions / Diagnostics Yes Statistics Packet Size Statistics packet type Statistics Yes Product functions / DHCP Product function DHCP client Yes 	• FTP	Yes
• LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes Identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location Yes • Bottom functions / Diagnostics Yes Product function Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product function Yes • DHCP client Yes	• BOOTP	No
LettYes• SNMP v1Yes• SNMP v2Yes• SNMP v3YesIdentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher-level designation/location designationYesProduct functions / DiagnosticsYesProduct functionYes• Statistics Packet SizeYes• Statistics packet typeYes• Error statisticsYesProduct functionYes• DHCP clientYesProduct functionYes	• DCP	Yes
 SNMP v2 SNMP v3 Yes Identification & maintenance function I&M0 - device-specific information I&M0 - device-specific information Yes I&M1 - higher-level designation/location designation Yes Product functions / Diagnostics Product function Port diagnostics Yes Statistics Packet Size Statistics packet type Error statistics Yes Product functions / DHCP Product function Product function Product function Yes Product function Product functions / DHCP Product function Yes Product function Product function Yes Product function Yes Product functions / DHCP Product functions / DHCP Product function Yes Product function Product function Yes Product function Yes Product function Product function Yes Product funct	• LLDP	Yes
• SNMP v3 Yes Identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location Yes Product functions / Diagnostics Yes • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product functions / DHCP Yes Product function Yes Product function Yes Product function Yes Product function Yes	• SNMP v1	Yes
Identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M1 - higher-level designation/location Yes Product functions / Diagnostics Yes Product function Yes • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product functions / DHCP Yes Product function Yes Product functions / DHCP Yes Product function Yes	• SNMP v2	Yes
• I&M0 - device-specific informationYes• I&M1 - higher-level designation/location designationYesProduct functions / DiagnosticsYesProduct function • Port diagnosticsYes• Port diagnosticsYes• Statistics Packet Size • Statistics packet type • Error statisticsYesProduct functions / DHCPYesProduct function • DHCP clientYesProduct function • DHCP clientYesProduct functions / redundancyYes	• SNMP v3	Yes
• I&M1 – higher-level designation/location designation Yes Product functions / Diagnostics Product function • Port diagnostics Yes • Statistics Packet Size Yes • Statistics packet type Yes • Error statistics Yes Product functions / DHCP Yes Product function Yes • DHCP client Yes Product functions / redundancy Yes	Identification & maintenance function	
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Product functions / Diagnostics Product function • Port diagnostics • Statistics Packet Size • Statistics packet Size • Statistics packet type • Error statistics Yes • Error statistics Product functions / DHCP Product function • DHCP client Yes Product functions / redundancy		Yes
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 Statistics Packet Size Statistics packet type Statistics packet type Fror statistics Yes Product functions / DHCP Product function DHCP client Yes Product functions / redundancy 		
• Statistics packet type • Error statistics Product functions / DHCP Product function • DHCP client Product functions / redundancy	 Port diagnostics 	Yes
	Statistics Packet Size	Yes
Product functions / DHCP Product function • DHCP client Product functions / redundancy	 Statistics packet type 	Yes
Product function Yes • DHCP client Yes Product functions / redundancy Yes	• Error statistics	Yes
DHCP client Yes Product functions / redundancy	Product functions / DHCP	
Product functions / redundancy	Product function	
	DHCP client	Yes
Product function	Product functions / redundancy	

	Yes
Ring redundancy	
 High Speed Redundancy Protocol (HRP) 	Yes
 high speed redundancy protocol (HRP) with redundancy manager 	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, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
 for hazardous zone 	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
 for hazardous zone / from CSA and UL 	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
 for emitted interference 	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-4:2001
MTBF	48.03 y
Standards, specifications, approvals / CE	
Certificate of suitability / CE marking	Yes
Standards, specifications, approvals / other	
Certificate of suitability	EN 61000-6-4:2001
• C-Tick	Yes

 Railway application in accordance with EN 50155 	No
 Railway application in accordance with EN 50124-1 	No
 KC approval 	Yes
Standards, specifications, approvals / marine classi	fication
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
• Bureau Veritas (BV)	Yes
 Det Norske Veritas (DNV) 	No
Germanische Lloyd (GL)	No
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (NK) 	Yes
 Polski Rejestr Statkow (PRS) 	No
 Royal Institution of Naval Architects (RINA) 	Yes
accessories	
Product extension / optional / C-PLUG	Yes
Further information / Internet-Links	
Internet-Link	
to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
 to website: Industrial communication 	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
 to website: Image database 	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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