SIEMENS

Data sheet

6GK5204-0BA00-2AF2



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 mo	
number of electrical ports / maximum	4
interfaces / for communication / integrated	4
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	

maximum IP20 design, dimensions and weights IP20 design, dimensions and weights Flat width 75 mm height 125 mm depth 73 mm net weight 0.25 kg fastening method - • 35 mm top hat DIN rail mounting Yes • wall mounting No • 57-050 rail mounting No • 67-7500 rail mounting No of -75.500 rail mounting No of -75.500 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3v= cascading in the case of star topology any (depending only on signal propagation time) product function fess • CLI Yes • web-based management Yes • IMB support Yes • ortifiguration with STEP 7 Yes • ortifiguration with STEP 7 Yes • prother for origing No • TRAPs via email Yes •
design, dimensions and weights design, dimensions and weights design, dimensions and weights width 75 mm height 125 mm depth 73 mm net weight 0.25 kg fastening method - • s3 mm top hat DIN rall mounting Yes • well mounting No • S7-1500 rail mounting No • S7-1500 rail mounting 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 <-0.3v-s
design Flat width 75 mm height 125 mm depth 73 mm net weight 0.25 kg fastening method • • 58 m top hat DIN rail mounting Yes • wall mounting No • 57-300 rail mounting No • 57-300 rail mounting No • 57-300 rail mounting No cascading in the case of a redundant ring / at reconfiguration 50 time of <<-0.31-s
width 75 mm height 125 mm depth 73 mm net weight 0.25 kg fastening method 0.25 kg • 35 mm top hat DIN rail mounting Yes • wall mounting No • 57-300 rail mounting No • 57-300 rail mounting No • 57-1500 rail mounting No • 57-1500 rail mounting No • 57-1500 rail mounting No cascading in the case of a redundant ring / at reconfiguration 50 time of <-0.3x-s
height 125 mm depth 73 mm net weight 0.25 kg fastening method 0.25 kg • s3 mm top hat DIN rail mounting Yes • wall mounting No • s7-300 rail mounting No • 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-xs
depth 73 mm net weight 0.25 kg fastening method 95 mm top hat DIN rail mounting Yes • wall mounting No • \$7-300 rail mounting No • \$7-500 rail mounting \$0 reascading in the case of a redundant ring / at reconfiguration \$0 cascading in the case of star topology any (depending only on signal propagation time) product function \$0 transpect • CLI Yes \$0 • web-based management Yes • TRAPs via email Yes • onfiguration with STEP 7 Yes • port mirroring No • with
net weight 0.25 kg fastening method -35 mm top hat DIN rail mounting Yes • wall mounting No • s7-300 rail mounting No • s7-300 rail mounting No • s7-500 rail mounting No product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\~s
fastening method Yes • x8l mounting No • s7-s00 rail mounting No • S7-s00 rail mounting No product features, product functions, product components / general Cascading in the case of a redundant ring / at reconfiguration time of store scale of a redundant ring / at reconfiguration 50 cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering 50 product function / management Yes • CLI Yes • web-based management Yes • MIB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • port mirroring No • with IRT / PROFINET IO switch No • With IRT / PROFINET IO switch No • PROFINET IO diagnosis Yes product function / switch-managed Yes product function / switch-managed Yes product function / subtret Yes is apported Yes • Telnet Yes • Telnet Yes • TEIP Yes • FTFP Yes
• 35 mm top hat DIN rail mountingYes• wall mountingNo• S7-300 rail mountingNo• S7-1500 rail mountingNoproduct functions, product components / generalcascading in the case of a redundant ring / at reconfiguration50time of <-0.31-s
• wall mounting No • \$37-300 rail mounting No • \$37-300 rail mounting No product features, product functions, product components / general Image: Cascading in the case of a redundant ring / at reconfiguration cascading in the case of a redundant ring / at reconfiguration 50 cascading in cases of star topology any (depending only on signal propagation time) product functions / management, configuration, engineering 50 product functions Yes • CLl Yes • web-based management Yes • MIB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • port mirroring No • with IRT / PROFINET IO switch No • with IRT / PROFINET IO switch No • PROFINET IO diagnosis Yes PROFINET IO diagnosis Yes Protocl / is supported Yes • Telnet Yes • HTTPS Yes • HTTPS Yes • FTP Yes
• S7-300 rail mountingNo• S7-1500 rail mountingNoproduct features, product functions, product components / generalS0cascading in the case of a redundant ring / at reconfiguration time of <-0.3k-s
• S7-1500 rail mounting No product features, product functions, product components / general 50 cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\-s
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <'-0.3\-s
cascading in the case of a redundant ring / at reconfiguration time of <\-0.3\~s50cascading in cases of star topologyany (depending only on signal propagation time)product functions / management, configuration, engineeringproduct function• CLIYes• web-based managementYes• MB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET conformity classBproduct function / subch-managedYes• TranetYes• FalsetYes• TRAPSYes• InternetYes• TRAPS via emailYes• Configuration with STEP 7Yes• port mirroringYes• prot mirroringNo• TRAPS via emailYes• TRAPSYes• TRAPSYes• TRAPSYes• TRAPSYes• TRAPSYes• TRAPSYes• TRAPSYes• FTPYes• FTPYes
time of <\-0.3\-scascading in cases of star topologyany (depending only on signal propagation time)product function / management, configuration, engineeringproduct function• CLIYes• web-based managementYes• MB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• multiport mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET iO diagnosisYesproduct function / switch-managedYesproduct function / switch-managedYesFelnetYes• FITPYes• FTPYes
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • MIB support Yes • TRAPs via email Yes • configuration with STEP 7 Yes • port mirroring Yes • multiport mirroring Yes • multiport mirroring No • with IRT / PROFINET IO switch No • PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes • Teinet Yes • HTTP Yes • HTTPS Yes • TFTP Yes
product functionYes• CLIYes• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBprotocol / is supportedYes• HTTPYes• HTTPSYes• FTPYes• FTPYes
• CLIYes• web-based managementYes• MIB suppotYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• port mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYes• PROFINET IO diagnosisYes• product function / switch-managedYes• relnetYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes
• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• nultiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYes• PROFINET conformity classB• protocol / is supportedYes• TelnetYes• HTTPYes• HTTPYes• FIPFYes• FTPYes• FTPYes
MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYes• PROFINET IO diagnosisYes• product function / switch-managedYes• TelnetYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes
TRAPs via emailYes• Configuration with STEP 7Yes• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYes• TelnetYes• TTPYes• TEIPSYes• FTPYes• FTPYes• FTPYes• FTPYes
• configuration with STEP 7Yes• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET conformity classYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• TFIPSYes• HTTPSYes• FTFPYes• FTPYes
• port mirroringYes• multiport mirroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYes• TelnetYes• TelnetYes• HTTPYes• HTTPSYes• FTFPYes• FTPYes
• multiport miroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes
• multiport miroringNo• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes• FTPYes
• with IRT / PROFINET IO switchNo• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes• FTPYes
PROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes• FTPYes
PROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• TFTPYes• FTPYes• FTPYes
product function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPSYes• FTPYes• FTPYes
protocol / is supported • Telnet • HTTP • HTTPS • HTTPS • TFTP • FTP Yes
TelnetYesHTTPYesHTTPSYesTFTPYes• FTPYesYesYes
HTTPYesHTTPSYesTFTPYesFTPYes
• HTTPSYes• TFTPYes• FTPYes
FTP Yes Yes
• FTP Yes
• BOOTP No
• DCP Yes
LLDP Yes
• SNMP v1 Yes
• SNMP v2 Yes
• SNMP v3 Yes
identification & maintenance function
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 Yes
statistics packet type Yes
• error statistics Yes
product functions / DHCP
product function
DHCP client Yes
product functions / redundancy
product function
• ring redundancy Yes
High Speed Redundancy Protocol (HRP) Yes
high speed redundancy protocol (HRP) with redundancy Yes
manager

 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,
	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	
, .	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX
standards, specifications, approvals / hazardous environments	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
standards, specifications, approvals / hazardous environments	0145 X ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C,
standards, specifications, approvals / hazardous environments standard / for hazardous zone • from CSA and UL	0145 X
standards, specifications, approvals / hazardous environments 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
standards, specifications, approvals / hazardous environments 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
standards, specifications, approvals / hazardous environments 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
standards, specifications, approvals / hazardous environments 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 Ex nA IIC T4 Gc
standards, specifications, approvals / hazardous environments 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
standards, specifications, approvals / hazardous environments 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
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standards, specifications, approvals / hazardous environments 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) EN 61000-6-4:2001
standards, specifications, approvals / hazardous environments 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 • 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	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
standards, specifications, approvals / hazardous environments 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 • 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
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standards, specifications, approvals / hazardous environments 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 • 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 standards, specifications, approvals / marine classification Marine classification association	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 No
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