SIEMENS

Data sheet

6GK5310-0BA10-2AA3



SCALANCE X310FE, managed plus IE switch, 10x 10/100 Mbit/s RJ45 ports, LED diagnostics, error-signaling contact with Select/set pushbutton, PROFINET IO Device, network management, integrated redundancy manager, Office features (RSTP, VLAN, IGMP,...) C-plug in scope of delivery

product type designation	SCALANCE X310FE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
 for network components or terminal equipment 	10
number of 10/100 Mbit/s RJ45 ports / integrated	
 with securing collar 	10
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 supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
 supply voltage / 1 / rated value 	24 V
 power loss [W] / 1 / rated value 	9.6 W
 supply voltage / 1 / rated value 	18 32 V
 consumed current / 1 / maximum 	0.4 A
 type of electrical connection / 1 / for power supply 	4-pole terminal block
 product component / 1 / fusing at power supply input 	Yes
ambient conditions	
ambient temperature	
 during operation 	-40 +60 °C
during storage	-40 +70 °C

• Version 2 doing doubpoint Point OC 0 • etails to full full oppoint 95 % • Protector datas IP IP30 design, dimensions and weights compact design, dimensions and weights 120 mm feelph 122 mm etails not opermitted. Hain on a 35 mm standard mounting visit not be to IN rail mounting Yes • S7.300 rail mounting Yes • S7.1500 rail mounting Yes • S7.1500 rail mounting Yes • Calcular finances, product functions, product components? general cescenting in the case of a redundant fing / at cescenting in the case of a redundant fing / at 100 cescenting in meases of stropology are y (depending only on signal propagation time) product function Yes • CLI Yes • INIS support Yes • INIS support Yes • Configuration with STEP 7 Yes • INIS support <th>during transport</th> <th>-40 +70 °C</th>	during transport	-40 +70 °C
• at 25 °C / without condensation / during operation / maximum 95 % protection class IP P30 design, dimensions and weights compact with 120 mm height 125 mm depth 125 mm depth 125 mm depth 14 kg 0 fastening method Vite used in hipbuilding, installation on a 35 mm standard mounting rul is nor to permitted. • 19-inch installation No • 35 mm to phat DN rul mounting Yes • 57-300 rul mounting Yes • 57-37-300 rul mounting No product features, product functions, product components/ general cascading in the case of a reducted mount for / at reconfiguration time of <-0.3ix-s		
protection class IP IP30 design compact width 120 mm height 125 mm depth 125 mm depth 125 mm depth 14 kg 0 retweight 14 kg 0 estening method Viter used in hipbuilding, installation on a 35 mm standard mounting rul is not parmitted. • 19 inch installation No • 35 mit top hat DIN rul mounting Yes • 57-1300 rul mounting Yes • 57-7300 rul mounting Yes • 57-7300 rul mounting No product functions, product components/ general cascading in the case of a redunant rule; /at reconfiguration time of <-0.3x-s	• at 25 °C / without condensation / during operation /	95 %
design compact design compact width 120 mm height 125 mm depth 123 mm net weight 14 kg istening method When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • 57.300 rail mounting Yes • 57.4500 rail mounting Yes • 19-induct fautros, product fautros product fautros • reporting fautros product fautros • reporting fautros yes • reporting fautros Yes • report mirroring Yes • report mirroring Yes • report mirroring Yes		
design compact with 120 mm height 125 mm depth 123 mm net weight 14 kg g fastening method 14 kg g issening method When used in shipbuilding, installation on a 35 mm standard mounting rall is not premitted. • 19-inch installation No • 35 mm top hat DIN rall mounting Yes • 57-300 rall mounting Yes • 57-300 rall mounting Yes • 57-300 rall mounting No product finatures, product functions, product components / general cascading in the case of a radiuation, engineering product function Yes • CLI Yes • MB support Yes • CRIMON Yes • CRIMON Yes • MB support Yes • MB support Yes • MB support Yes • MRION Yes • ProDriveT In diagnesis Yes • ProDriveT In diagnesis Yes • Forther threading Yes • Forther </td <td>•</td> <td>IP30</td>	•	IP30
width 120 mm height 123 mm depth 123 mm ret weight 14 kg fastening method 14 kg astening method No • 19-inch installation No • 35 mm top hat DN rail mounting Yes • S7-300 rail mounting Yes • S7-300 rail mounting Yes • S7-300 rail mounting Yes • S7-1500 rail mounting Yes • S7-1500 rail mounting Yes • S7-1500 rail mounting No product fastures, product functions, product components/general any (depending only on signal propagation time) product function • CLI Yes • Web based management Yes • CLI • web based management Yes • CLI • NON Yes • RaNON • CLI Yes • RaNON • port function / supported Yes • Ranon • protocol / supported Yes • Ranon • protocol / is supported Yes • Ranon	design, dimensions and weights	
height 128 mm depth 123 mm net weight 1.4 kg fastening method When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • xall mounting Yes • 57-300 rail mounting Yes • 57-7300 rail mounting Yes • 57-7300 rail mounting Yes • 57-7300 rail mounting Yes • 57-7400 rail mounting Yes • 57-7300 rail mounting Yes • 57-7300 rail mounting Yes • 57-7500 rail mounting any (depending only on signal propagation time) product functions / Yes • ccll web-based management Yes • onfiguration with STEP 7 Yes • mitodit function Yes Yes • configuration with STEP 7 Yes • protor insignals Yes • protor insignals Yes • protor in supported Yes • protor in supopredd Yes	design	compact
depth 123 mm ret weight 14 kg fastening method 14 kg isstening method When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted. • 19-inch installation No • 33 mm top hat DN rail mounting Yes • wall mounting Yes • S7-300 rail mounting Yes • S7-1000 rail mounting No product fautures, product functions, product components/general 100 cascading in the case of a redundant ring / at reconfiguration time of <-0.34-9.	width	120 mm
net weight 1.4 kg fastering method When used in shipbuilding, installation on a 35 mm standard mounting rails and permitted. • 19-inch installation No • 35 mm top hat DIN rail mounting Yes • will mounting Yes • 57-500 rail mounting Yes • 57-500 rail mounting No product fastures, product functions, product components / general cacading in the case of a roundant ring / at cacading in the case of a roundant ring / at 100 reconfiguration time of -<0.3~s	height	125 mm
fastening method When used in shipbuilding, installation on a 35 mm standard mounting • 19-inch installation No • 33 mm top hat DN rail mounting Yes • soft anounting Yes • S7-300 rail mounting Yes • S7-300 rail mounting No product features, product functions, product components / general Image: Composition of the Case of a redundant ring / at reconfiguration time of <<0.3 v-s	depth	123 mm
rail is not permitted. No No No Simm top hat DIN rail mounting Yes S7-1500 rail mounting Product functions, product components / general cescading in the case of a redundant ring / at reconfiguration time of <-0.3x-5 cescading in cases of sar topology any (depending only on signal propagation time) Product functions reconfiguration time of <-0.3x-5 cescading in cases of sar topology any (depending only on signal propagation time) Product functions reconfiguration time of <-0.3x-5 cescading in cases of sar topology any (depending only on signal propagation time) Product functions reconfiguration with STEP 7 RMON No PROFINET IO diagnosis Product function / Yes PROFINET IO diagnosis Product function / Yes Protocol // is supported Telahet Telahet FTP FTP FTP FTP Support SNMP V2 SNMP V2 SNMP V2 SNMP V3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3 SNMP S3	net weight	1.4 kg
• 35 mm top hat DIN rail mounting Yes • wall mounting Yes • S7-1500 rail mounting No product factures, product functions, product components / general cescading in the case of a redundant ring / at cescading in the case of a redundant ring / at 100 reconfiguration time of <-0.3x-5	fastening method	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
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• S7-300 rail mounting Yes • S7-1500 rail mounting No Cascading in the case of a redundant ling / at reconfiguration time of <+0.31-s	 35 mm top hat DIN rail mounting 	Yes
> S7-1500 rail mounting No product functions, product components / general cascading in the case of a redundant ring / at ing / at	 wall mounting 	Yes
product features, product functions, product components / general cascading in the case of a redundant ring / at reconfiguration time of <-0.3%-s	 S7-300 rail mounting 	Yes
cascading in the case of a redundant ring / at reconfiguration time of <<-0.34-s	 S7-1500 rail mounting 	No
recordiguration time of <<-0.3i+s	product features, product functions, product components	s / general
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • WB support Yes • IRAPs via email Yes • ordinguration with STEP 7 Yes • RMON Yes • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET to diagnosis Yes PROFINET conformity class B product function / switch-managed Yes • PROFINET conformity class B product function / switch-managed Yes • FIP Yes • HTTPS Yes • HTTPS Yes • ENO Yes • DOTP Yes • BOOTP Yes • DCP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • ISM0 - device-specific information Yes		100
product functions / management, configuration, engineering product function • CLI Yes • web-based management Yes • WB support Yes • IRAPs via email Yes • ordinguration with STEP 7 Yes • RMON Yes • port mirroring Yes • multiport mirroring Yes • CoS Yes • PROFINET to diagnosis Yes PROFINET conformity class B product function / switch-managed Yes • PROFINET conformity class B product function / switch-managed Yes • FIP Yes • HTTPS Yes • HTTPS Yes • ENO Yes • DOTP Yes • BOOTP Yes • DCP Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • ISM0 - device-specific information Yes		any (depending only on signal propagation time)
product function Yes • CLI Yes • web-based management Yes • IRAPs via email Yes • configuration with STEP 7 Yes • configuration with STEP 7 Yes • port mirroring Yes • port mirroring Yes • CoS Yes • PROFINET IO diagnosis Yes product function / switch-managed Yes product function / switch-managed Yes product function / switch-managed Yes • FIFP Yes • HTTPS Yes • FIFP Yes • DOTP Yes • DOTP Yes • SIMP V1 Yes • SIMP V2 Yes • SIMP V3 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes • IMP (snooping/querier) Yes product function - mich diagnostics Yes product function - diagnostics Yes		
• CLIYes• web-based managementYes• Wilb supportYes• RTRAPs via emailYes• configuration with STEP 7Yes• configuration with STEP 7Yes• port mimoringYes• port mimoringYes• port mimoringYes• CoSYes• PROFINET IO diagnosisYes• PROFINET conformity classBproduct function / switch-managedYes• TeinetYes• HTTPYes• HTTPYes• HTTPYes• FIPYes• EFPYes• BOOTPYes• COPYes• SNMP V1Yes• SNMP v2Yes• ISMM P v3Yes• ISMM P v3Yes• ISMM P v3Yes• ISMP (snooping/querier)Yes• ISMP (snooping/querier)Yes• ISMP (snooping/querier)Yes• ISMP (snooping/querier)Yes• ISMP (snooping/querier)Yes• ISMP (snooping/querier)Yes• ISM1 - higher level designation/location designationYes• port diagnosticsYes• product functionYes• statistics Packet SizeYes		
• web-based managementYes• MIB supportYes• TRAPs via emailYes• configuration with STEP 7Yes• RMONYes• port mirroringYes• port mirroringYes• CoSYes• PROFINET IO diagnosisYes• PROFINET conformity classB• protocol / is supportedYes• TainetYes• TTTPSYes• FTPYes• FTPYes• FTPYes• ETPYes• ETPYes• ITTPSYes• ETPYes• SIMP V3Yes• ISMMP in thigher level designation/location designationYes• Istatistics Packet SizeYes		Yes
• MIB support Yes • TRAPs via email Yes • configuration with STEP 7 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 • Telnet Yes • HTTP Yes • HTTP Yes • HTTP Yes Yes • HTTP Yes Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • IGMP (snooping/querier) Yes • I&M0 - device-specific information Yes • I&M0 - device-specific information Yes • I&M1 - higher level designation/location designation Yes • product function Yes • statistics Packet Size Yes		
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• RMONYes• port mirroringYes• multiport mirroringYes• CoSYes• PROFINET IO diagnosisYes• PROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPYes• HTTPYes• FTPYes• BOOTPYes• BOOTPYes• BOOTPYes• BOOTPYes• BOOTPYes• BOOTPYes• BOOTPYes• GMRPYes• CDPYes• CMNP v1Yes• SNMP v2Yes• IGMP (snooping/querier)Yes• IGMP (snooping/querier)Yes• IGMD - device-specific informationYes• I&M1 - higher level designation/location designationYes• product functionYes• jagnosticsYes• statistics Packet SizeYes		
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• multiport mirroringYes• CoSYes• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPYes• TFTPYes• FTPYes• BOOTPYes• BOOTPYes• DCPYes• LDPYes• SNMP v1Yes• SNMP v2Yes• ISMV v3Yes• ISMV v3Yes• ISMV v4Yes• ISMV v5Yes• ISMV v6Yes• ISMV v6Yes<		
• CoS Yes • PROFINET IO diagnosis Yes PROFINET conformity class B product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • FTP Yes • BOOTP Yes • BOOTP Yes • BOOTP Yes • DCP Yes • SNMP v1 Yes • SNMP v2 Yes • IGMP (snooping/querier) Yes • I&M1 - higher level designation/location designation Yes • I&M1 - higher level designation/location designation Yes • product function Yes • statistics Packet Size Yes		
• PROFINET IO diagnosisYesPROFINET conformity classBproduct function / switch-managedYesprotocol / is supportedYes• TelnetYes• HTTPYes• HTTPYes• HTTPYes• FTPYes• BOOTPYes• SNMP v1Yes• SNMP v2Yes• IGMP (snooping/querier)Yes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functionsImage statistics• port diagnosticsYes• statistics Packet SizeYes		
PROFINET conformity class B product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFIP Yes • FTP Yes • BOOTP Yes • BOMRP Yes • BOMP v1 Yes • SNMP v1 Yes • SNMP v2 Yes • SNMP v3 Yes • IGMP (snooping/querier) Yes • Identification & maintenance function Yes • I&M0 - device-specific information Yes • I&M0 - device-specific information Yes • I&M1 - higher level designation/location designation Yes product function Yes • statistics Packet Size Yes		
product function / switch-managed Yes protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • IGMP (snooping/querier) Yes • I&M0 - device-specific information Yes • I&M0 - device-specific information Yes product function Yes product function Yes • port diagnostics Yes Yes Yes		
protocol / is supported Yes • Telnet Yes • HTTP Yes • HTTPS Yes • TFTP Yes • FTP Yes • BOOTP Yes • GMRP Yes • DCP Yes • LLDP Yes • SNMP v1 Yes • SNMP v2 Yes • IGMP (snooping/querier) Yes identification & maintenance function Yes • I&MO - device-specific information Yes I&MM - higher level designation/location designation Yes product function Yes • port diagnostics Yes • statistics Packet Size Yes		
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• TFTPYes• FTPYes• BOOTPYes• GMRPYes• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• IdM - device-specific informationYes• I&M - higher level designation/location designationYesproduct functionYes• statistics Packet SizeYes		
• FTPYes• BOOTPYes• GMRPYes• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yes• Identification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functionYes• port diagnosticsYes• statistics Packet SizeYes		
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• DCPYes• LLDPYes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (snooping/querier)Yesidentification & maintenance functionYes• I&M0 - device-specific informationYes• I&M1 - higher level designation/location designationYesproduct functions / diagnosticsYes• port diagnosticsYes• statistics Packet SizeYes		
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• I&M0 - device-specific information Yes • I&M1 - higher level designation/location designation Yes product functions / diagnostics Yes • port diagnostics Yes • statistics Packet Size Yes		105
• I&M1 – higher level designation/location designation Yes product functions / diagnostics Yes product function Yes • port diagnostics Yes • statistics Packet Size Yes		Vec
product functions / diagnostics product function • port diagnostics Yes • statistics Packet Size Yes	•	
product function • port diagnostics • statistics Packet Size Yes		
 port diagnostics statistics Packet Size Yes 		
statistics Packet Size Yes		
statistics packet type Yes		
	 statistics packet type 	Yes

error statistics	Yes
• SysLog	Yes
product functions / VLAN	
product function	
VLAN - port based	Yes
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
passive listening	Yes
protocol / is supported	
STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• MSTP	Yes
 RSTP big network support 	Yes
• LACP	Yes
product functions / security	
product function	
 ACL - MAC-based 	Yes
 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	No
standards, specifications, approvals	

standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
 for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
for emitted interference	EN 61000-6-4:2007 (Class A)
for interference immunity	EN 61000-6-2:2005
MTBF	40 y
standards, specifications, approvals / CE	TO Y
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environn	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213- M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	
 CCC / for hazardous zone according to GB standard 	Yes
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 classificatio	n
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
• French marine classification society (BV)	Yes
 Det Norske Veritas (DNV) 	No
Germanische Lloyd (GL)	No
• DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	No
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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