SIEMENS

Data sheet	**6GK5204-2AA00-2GF2**

SCALANCE XF204-2BA managed IE switch, 4 x 10/100 Mbit/s, IEC 62443-4-2 certified; 2 x BusAdapter interface, error signaling contact, set pushbutton, redundant 24 V DC power supply, PROFINET device, extended temperature range -40 °C...+70 °C, conformal coating, with electr. manual on DVD, C-PLUG optional, supplied without BusAdapter

product type designation	
product brand name	SCALANCE
product type designation	XF204-2BA
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	0
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	2-pole terminal block
design of the removable storage	
● C-PLUG	Yes
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	8.6 W
● supply voltage / 1 / rated value	19.2 ... 28.8 V
● consumed current / 1 / maximum	0.36 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	2.5 A (cannot be changed by user)
ambient conditions	
ambient temperature	
● during operation	-40 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP20

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design, dimensions and weights	
design	compact
width	100 mm
height	117 mm
depth	74 mm
net weight	0.21 kg
fastening method	
● 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 reconfiguration time of <\~0.3\~s	50
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	Yes
● TRAPs via email	Yes
● configuration with STEP 7	Yes
● port mirroring	Yes
● multiport mirroring	Yes
● PROFINET IO diagnosis	Yes
● switch-managed	Yes
PROFINET conformity class	B
network load class / according to PROFINET	2
protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes
● SFTP	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 / VLAN	
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257

product functions / DHCP	
product function	
● DHCP client	Yes

product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
● media redundancy protocol (MRP) with redundancy	Yes

manager	
● Media Redundancy Protocol Interconnection (MRP-I)	Yes
● Media Redundancy Protocol for Planned Duplication (MRPD)	No
● of the PROFINET IO device / is supported / H-Sync forwarding	Yes
● of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
● ring redundancy	Yes
● high speed redundancy protocol (HRP) with redundancy manager	Yes
● high speed redundancy protocol (HRP) with standby redundancy	Yes
● redundancy procedure RSTP+	Yes
● Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
● passive listening	Yes

system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes

product functions / security	
product function	
● RADIUS client	Yes
protocol / is supported	
● SSH	Yes

product functions / time	
product function	
● SICLOCK support	No
protocol / is supported	
● NTP	No
● SNTP	Yes

standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● cULus approval	Yes
● KC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
standard	
● for EMC interference emission	EN 61000-6-4:2001 (Class A)
● for immunity to EMC	EN 61000-6-2, EN 61000-6-4
● for safety / from CSA and UL	UL 508 E85972

standards, specifications, approvals / hazardous environments	
certificate of suitability	
● ATEX	Yes
● UKEX	Yes
● IECEx	Yes
● ULhazloc approval	Yes
● CCC / for hazardous zone according to GB standard	Yes
● FM registration	Yes

standards, specifications, approvals / other	
certificate of suitability	
● railway application in accordance with EN 50155	No
● railway application in accordance with EN 50124-1	No
● RoHS conformity	Yes
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes

standards, specifications, approvals / marine classification	
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● French marine classification society (BV)	Yes
● DNV GL	Yes
● Korean Register of Shipping (KRS)	Yes

● Lloyds Register of Shipping (LRS)	Yes	
● Nippon Kaiji Kyokai (NK)	Yes	
● Polski Rejestr Statkow (PRS)	Yes	
● Royal Institution of Naval Architects (RINA)	Yes	

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	95.76 kg
● during manufacturing	20.21 kg
● during operation	75.23 kg
● after end of life	0.32 kg

product functions / general

reference code	
● according to IEC 81346-2	KF
● according to IEC 81346-2:2019	KFE
Warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022

further information / internet links

internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

CE EG-Konf.	Declaration of Conformity	EAC	Declaration of Conformity	RCM	TÜV

EMV	For use in hazardous locations			Marine / Shipping
KC	IECEx IECEx	Ex ATEX	FM CCC-Ex	ABS

Marine / Shipping	Environment

Industrial Communication

PROFINET

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