# **SIEMENS**

# **Data sheet**



SCALANCE XF204-2BA DNA managed IE Y-switch, IEC 62443-4-2 certified; 4 x 10/100 Mbit/s, 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 DNA
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	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
<ul><li>supply voltage / 1 / rated value</li></ul>	24 V
<ul><li>power loss [W] / 1 / rated value</li></ul>	8.6 W
<ul><li>supply voltage / 1 / rated value</li></ul>	19.2 28.8 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.36 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	2-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
<ul> <li>fuse protection type / 1 / at input for supply voltage</li> </ul>	2.5 A (cannot be changed by user)
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20

design, dimensions and weights	
width	100 mm
height	117 mm
depth	74 mm
net weight	0.21 kg
fastening method	
35 mm top hat DIN rail mounting	Yes
wall mounting	No
S7-300 rail mounting	No
S7-1500 rail mounting	No
product features, product functions, product components / gene	eral
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
<ul> <li>web-based management</li> </ul>	Yes
MIB support	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• port mirroring	Yes
multiport mirroring	Yes
PROFINET IO diagnosis	Yes
switch-managed	Yes
PROFINET conformity class	В
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 / DHCP	
product function	
DHCP client	Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
Media Redundancy Protocol for Planned Duplication (MRPD)	No
<ul> <li>of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>	Yes
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	Yes

ring redundancy	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy</li> </ul>	Yes
manager  • high speed redundancy protocol (HRP) with standby	Yes
redundancy  • 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	165
	V
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	
•	Van
CE marking     All the proposed.	Yes
cULus approval	Yes
KC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
standard	
<ul> <li>for EMC interference emission</li> </ul>	EN 61000-6-4:2001 (Class A)
<ul> <li>for immunity to EMC</li> </ul>	EN 61000-6-2, EN 61000-6-4
<ul> <li>for safety / from CSA and UL</li> </ul>	UL 508 E85972
standards, specifications, approvals / hazardous environments	
certificate of suitability	
	Yes
certificate of suitability	Yes Yes
certificate of suitability  • ATEX	
certificate of suitability  • ATEX  • UKEX  • IECEx	Yes
certificate of suitability  • ATEX  • UKEX  • IECEx  • ULhazloc approval	Yes Yes
certificate of suitability  • ATEX  • UKEX  • IECEx  • ULhazloc approval  • CCC / for hazardous zone according to GB standard	Yes Yes Yes
certificate of suitability  • ATEX  • UKEX  • IECEX  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration	Yes Yes Yes Yes
certificate of suitability  • ATEX  • UKEX  • IECEx  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration  standards, specifications, approvals / other	Yes Yes Yes Yes
certificate of suitability  • ATEX  • UKEX  • IECEX  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration  standards, specifications, approvals / other  certificate of suitability	Yes Yes Yes Yes Yes Yes
certificate of suitability  • ATEX  • UKEX  • IECEX  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50155	Yes Yes Yes Yes Yes Yes No
certificate of suitability  • ATEX  • UKEX  • IECEX  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50155  • railway application in accordance with EN 50124-1	Yes Yes Yes Yes Yes Yes No No
certificate of suitability  • ATEX  • UKEX  • IECEX  • ULhazloc approval  • CCC / for hazardous zone according to GB standard  • FM registration  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50155  • railway application in accordance with EN 50124-1  • RoHS conformity	Yes Yes Yes Yes Yes Yes No No No Yes
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certificate of suitability  ATEX  UKEX  IECEX  ULhazloc approval  CCC / for hazardous zone according to GB standard  FM registration  standards, specifications, approvals / other  certificate of suitability  railway application in accordance with EN 50155  railway application in accordance with EN 50124-1  ROHS conformity  IT security for industrial automation systems / according to IEC 62443-4-2:2019  standards, specifications, approvals / marine classification  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)	Yes Yes Yes Yes Yes Yes Yes  No No No Yes Yes
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during manufacturing
during operation
after end of life
20.21 kg
5.23 kg
0.32 kg

reference code

• according to IEC 81346-2

• according to IEC 81346-2:2019

Warranty period

KF

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#### further information / internet links

#### internet link

to website: Selection guide for cables and connectors
to web page: selection aid TIA Selection Tool

• to website: Industrial communication

product function / is supported / identification link

to web page: SiePortalto website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://support.industry.siemens.com/cs/ww/en/view/109766358

https://www.siemens.com/tstcloud

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

https://sieportal.siemens.com/

Yes; acc. to IEC 61406-1:2022

https://www.automation.siemens.com/bilddb

https://www.siemens.com/cax

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**



Declaration of Conformity





Declaration of Conformity



General Product Approval

**EMV** 

For use in hazardous locations



KC



IECEx



<u>FM</u>

CCC-Ex

### Marine / Shipping









NK / Nippon Kaiji Kyokai



**Environment** 

**Industrial Communication** 

# **PROFINET**



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