

Siemens 6GK5206-2BS00-2AC2 Manual

Brand	Siemens
Product Series	Siemens
Product Type	designation SCALANCE XC206-2SFP

Description

6GK5206-2BS00-2AC2

SCALANCE XC206-2SFP manageable Layer 2 IE switch; IEC 62443-4-2 certified;
6x 10/100 Mbit/s RJ45 ports; 2x 100/1000 Mbit/s SFP; 1x console port; diagnostics
LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN
rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...);
PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

product type designation SCALANCE XC206-2SFP

transfer rate

transfer rate 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s

interfaces / for communication / maximum configuration for modular devices

number of electrical ports / maximum 6

number of optical ports / maximum 2

interfaces / for communication / integrated

number of electrical connections

- for network components or terminal equipment 6; RJ45

number of 10/100 Mbit/s RJ45 ports / integrated

- with securing collar 6

interfaces / for communication / plug-in

number of electrical connections

- for SFP 2; 100 Mbit/s or 1000 Mbit/s SFP plug-in transceiver

interfaces / other

number of electrical connections

- for operator console 1
- for signaling contact 1
- for power supply 1

type of electrical connection

- for operator console RJ11
- 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 6 W
- consumed current / 1 / at rated supply voltage / maximum 0.25 A
- supply voltage / 1 / rated value 9.6 ... 31.2 V
- consumed current / 1 / maximum 0.5 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 2.5 A / 125 V

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

design, dimensions and weights

design compact

width 60 mm

height 147 mm

depth 125 mm

net weight 0.52 kg

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material / of the enclosure Polycarbonate (PC-GF10) / pressure die cast aluminum

fastening method

- 35 mm top hat DIN rail mounting Yes
- wall mounting Yes
- S7-300 rail mounting Yes
- S7-1500 rail mounting Yes

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 function / QoS according to DSCP Yes

product feature

- Cut Through switching method No
- Store & Forward switching method Yes

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
- RMON Yes
- SMTP server No
- port mirroring Yes

- multiport mirroring Yes
- CoS Yes
- PROFINET IO diagnosis Yes

PROFINET conformity class B

product function / switch-managed Yes

telegram length / for Ethernet / maximum 1632 byte

protocol / is supported

- Telnet Yes
- HTTP Yes
- HTTPS Yes
- TFTP Yes
- BOOTP No
- GMRP Yes
- DCP Yes
- LLDP Yes
- EtherNet/IP Yes
- SNMP v1 Yes
- SNMP v2 Yes
- SNMP v3 Yes
- IGMP (snooping/querier) Yes

identification & maintenance function

I&M0 - device-specific information Yes

- I&M1 - higher level designation/location designation Yes

product function

- is supported / identification link Yes; according to IEC 61406-1:2022

product functions / diagnostics

product function

- port diagnostics Yes
- statistics Packet Size 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

number of VLANs / maximum 257

number of VLANs - dynamic / maximum 257

number of VLANs / at ring redundancy (HRP; MRP; standby link)

257

protocol / is supported / GVRP Yes

product functions / DHCP

product function

- DHCP server Yes
- DHCP client Yes
- DHCP Option 82 Yes
- DHCP Option 66 Yes

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- DHCP Option 67 Yes

product functions / redundancy

product function

- of the PROFINET IO device / is supported / PROFINET

system redundancy

Yes

- 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

- Media Redundancy Protocol Interconnection (MRP-I) Yes

- of the PROFINET IO device / is supported / H-Sync

forwarding

Yes

- redundancy procedure STP Yes
- redundancy procedure RSTP Yes
- redundancy procedure RSTP+ Yes
- redundancy procedure MSTP Yes
- Parallel Redundancy Protocol (PRP)/operation in the

PRP-network

Yes

- Parallel Redundancy Protocol (PRP)/Redundant Network

Access (RNA)

No

- passive listening Yes

protocol / is supported

- LACP Yes

product functions / security

product function

- IEEE 802.1x (radius) Yes
- broadcast/multicast/unicast limiter Yes
- broadcast blocking Yes

protocol / is supported

- SSH Yes

SSL Yes

product functions / time

product function

- SICLOCK support Yes
- NTP-client Yes
- SNTP client Yes

protocol / is supported

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- NTP Yes
- SNTP Yes

system modification during operation

product function / configuration in RUN via CiR/H-CiR Yes

standards, specifications, approvals

standard

- for FM FM19US0167X

IT security for industrial automation systems / according to IEC

62443-4-2:2019

Yes

MTBF 47 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

product conformity / according to EMC-guideline 2014/30/EU

standard

- for EMC interference emission EN 61000-6-4, EN 50121-4
- for immunity to EMC EN 61000-6-2, EN 50121-4

certificate of suitability / RoHS conformity Yes; 2011/65/EU

standards, specifications, approvals / hazardous environments

certificate of suitability

- ATEX Yes; EN 60079-0, EN 60079-15
- for ATEX / as marking II 3 G Ex nA II 4 Gc
- for ATEX / as certificate KEMA 07ATEX0145 X
- IECEx Yes; IEC 60079-0, IEC 60079-15
- for IECEx / as marking Ex nA II T4 Gc
- for IECEx / as certificate IECEx DEK 14.0025X
- CCC / for hazardous zone according to GB standard Yes; GB3836.1, GB3836.8
- CCC / for hazardous zone according to GB standard / as

marking

Ex nA IIC T4 Gc

- for cULus HazLoc / as marking CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4
- for cULus HazLoc / as File Nr. E240480 (NWHP, NWHP7)
- FM registration Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004
- for FM / as marking CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C
- for FM / as certificate FM16US0205X

standards, specifications, approvals / other

certificate of suitability

- railway application in accordance with EN 50121-4 Yes
- Regulatory Compliance Mark (RCM) Yes
- for UL 61010-2-201 / as File Nr. E85972 (NRAQ, NRAQ7)
- for UL 60950-1 / as File Nr. E115352 (NWGQ, NWGQ7)
- EAC approval 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

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- 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

Environmental Product Declaration Yes

- Global Warming Potential [CO2 eq] / total 153.7 kg

- Global Warming Potential [CO2 eq] / during manufacturing

28.4 kg

- Global Warming Potential [CO2 eq] / during operation 125.2 kg

- global warming potential [CO2 eq] / after end of life 0.02 kg

accessories

product extension / optional / C-PLUG Yes

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