SIEMENS

Data sheet

6GK5205-3BB00-2TB2



SCALANCE XB205-3 managed Layer 2 IE switch 5x 10/100 Mbit/s RJ45 ports 3x MM FO ST port 1x console port, diagnostics LED redundant power supply; IEC 62443-4-2 certified; temperature range 0 °C to +60 °C DIN-rail mounting; default EtherNet/IP.

| transfer rate 10 Mbi/s, 100 Mbi//s number of oports / maximum 8 interfaces / for communication / Integrated 1 number of electrical connections 6 • for network components or terminal equipment 5; RJ45 number of electrical connections 1 • for network components or terminal equipment 3 interfaces / other 3 number of electrical connections 1 • for management purposes 1 • for operator console 1 • for operator console RJ11 • for operator console RJ45 supply voltage / 1 / of the suppl voltage DC • supply voltage / 1 / rated value 24 V • source solv[// 1 / rated value 24 V • consumed current / 1 / maximum 0.3 A • consumed current / 1 / maximum 0.3 A • product component / ontonesupply input Yes ambient temperature -40 +70 °C • during operation -40 +70 °C | product type designation | SCALANCE XB205-3 |
|---|--|-----------------------|
| number of ports / maximum 8 Interfaces / for communication / integrated Integrated number of electrical connections 5; RJ45 number of 100 Mbits ST(BFOC) ports 3 iftorfaces / other 3 number of electrical connections 1 i for operator console RJ11 i for operator console RJ45 supply voltage, current consumption, power loss product component / connection for redundant voltage supply voltage / 1 / rated value 7.2 W i supply voltage / 1 / rated value 7.2 W i supply voltage / 1 / rated value 9.2 28.8 V i consumed current / 1 / maximum 0.3.A i for ing storage -40 +70 °C i during storage -40 +70 °C i during storage -40 +70 °C <td>transfer rate</td> <td></td> | transfer rate | |
| Interfaces / for communication / integrated number of electrical connections • for network components or terminal equipment • for multimode • for operator console • for power supply • for power supply • for power supply • for management purposes • for management purposes • Ruf11 • for management purposes • Ruf45 • supply voltage / 1 / of the supply voltage • product component / connection for redundant voltage supply • supply voltage / 1 / rated value • supply voltage / 1 / rated value • product component / 1 / maximum • product component / 1 / for power supply • product component / 1 / for power supply input • product component / 1 / for power supply input • product component / 1 / for power supply | transfer rate | 10 Mbit/s, 100 Mbit/s |
| number of electrical connections 5; RJ45 • for network components or terminal equipment 5; RJ45 • number of 100 Mbits ST(BFOC) ports 3 • for multimode 3 interfaces / other 1 number of electrical connections 1 • for operator console 1 • for operator console 1 • for operator console RJ11 • for otage / 1 / of the supply voltage DC • uspity voltage / 1 / rated value 7.2 W • uspity voltage / 1 / rated value 19.2 28.8 V • consumed current/ 1 / maximum 0.3 A | number of ports / maximum | 8 |
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| number of 100 Mbit/s ST(BFOC) ports 3 i-for multimode 3 interfaces / other 1 number of electrical connections 1 i-for operator console RJ11 i-for operator console Product component / 2 onnection / 1 / for power supply i-for operator concection / 1 / for power supply ID2 i-for operator 0 60 °C i-during storage -40 +70 °C i-during storage -40 | number of electrical connections | |
| • for multimode 3 interfaces / other number of electrical connections 1 • for poerator console 1 • for power supply 1 type of electrical connection 1 • for operator console RJ11 • for management purposes RJ45 supply voltage, current consumption, power loss product component / connection for redundant voltage supply voltage / 1 / rated value 24 V • power loss [W] / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • consumed current / 1 / maximum 0.3 A • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply 6-pole terminal block • product component / 1 / fusing at power supply input Yes ambient temperature 0 60 °C • during strangeort -40 +70 °C • elasity humidity 95 % • at 25 °C / without condensation / during o | for network components or terminal equipment | 5; RJ45 |
| interfaces / other number of electrical connections • for operator console 1 • for management purposes 1 • for power supply 1 type of electrical connection 8,111 • for management purposes RU45 supply voltage, current consumption, power loss For ontage, current consumption, power loss product component / connection for redundant voltage Yes supply voltage / 1 / of the supply voltage DC • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply 6-pole terminal block • product component / 1 / fusing at power supply input Yes ambient conditions 0 60 °C • during peration -40 +70 °C • during transport -40 +70 °C • duri | number of 100 Mbit/s ST(BFOC) ports | |
| number of electrical connections 1 • for operator console 1 • for management purposes 1 • for power supply 1 type of electrical connection RJ11 • for operator console RJ11 • for operator console RJ11 • for management purposes RJ45 supply voltage, current consumption, power loss Product component / connection for redundant voltage supply voltage / 1 / of the supply voltage DC • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • consumed current / 1 / maximum 0.3 A • consumed current / 1 / for power supply espole terminal block • product component / 1 / fusing at power supply input Yes ambient conditions 0 60 °C • during peration 0 60 °C • during transport -40 +70 °C • during transport -40 +70 °C • during transport -90 • during transport -90 • during transport -90 • during transport -90 +70 °C • during transport | for multimode | 3 |
| • for operator console 1 • for management purposes 1 • for power supply 1 type of electrical connection RJ11 • for operator console RJ11 • for management purposes RJ45 supply voltage, current consumption, power loss Product component / connection for redundant voltage supply type of voltage / 1 / of the supply voltage DC • supply voltage / 1 / rated value 24 V • power loss [W] / 1 / rated value 7.2 W • supply voltage / 1 / rated value 19.2 28.8 V • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply 6-pole terminal block • product component / 1 / fusing at power supply input Yes ambient temperature 0 60 °C • during storage 40 +70 °C • during storage 40 +70 °C • during storage 40 +70 °C • during storage 95 % maximum PP20 design 80 mm height 117 mm | interfaces / other | |
| • for management purposes 1 • for power supply 1 type of electrical connection RJ11 • for operator console RJ11 • for management purposes RJ45 supply voltage, current consumption, power loss Product component / connection for redundant voltage product component / connection for redundant voltage Ves supply voltage / 1 / rated value 24 V • power loss [W] / 1 / rated value 7.2 W • supply voltage / 1 / rated value 19.2 28.8 V • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply 6-pole terminal block • power loss [W] / 1 / rated value 0 60 °C • during operation 0 60 °C • during transport -40 +70 °C • during transport -40 +70 °C • during transport 95 % • at25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design Box width 80 mm height 117 mm | number of electrical connections | |
| • for power supply 1 type of electrical connection RJ11 • for operator console RJ45 supply voltage, current consumption, power loss Product component / connection for redundant voltage supply voltage, current consumption, power loss Yes product component / connection for redundant voltage Yes supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 9.2 28.8 V • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply Yes ambient conditions | for operator console | 1 |
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| • for operator consoleRJ11 RJ45supply voltage, current consumption, power lossFor an agement purposesproduct component / connection for redundant voltage supplyYestype of voltage / 1 / fof the supply voltageDC• supply voltage / 1 / rated value24 V• power loss [W] / 1 / rated value7.2 W• supply voltage / 1 / rated value7.2 W• supply voltage / 1 / rated value7.2 W• consumed current / 1 / maximum0.3 A• type of electrical connection / 1 / for power supply6-pole terminal block• product component / 1 / fusing at power supply inputYesambient conditionsambient temperature0 60 °C• during operation0 60 °C• during storage-40 +70 °C• during storage-40 +70 °C• during storage-40 +70 °C• during torage-40 +70 °C• during storage-40 +70 °C• during storage-40 +70 °C• during storage-40 +70 °C• during storage-40 +70 °C• during torage-40 +70 °C• during torage | for power supply | 1 |
| • for management purposesRJ45supply voltage, current consumption, power lossproduct component / connection for redundant voltage supplyYessupply voltage / 1 / of the supply voltageDC• supply voltage / 1 / rated value24 V• power loss [W] / 1 / rated value7.2 W• supply voltage / 1 / rated value19.2 28.8 V• consumed current / 1 / maximum0.3 A• type of electrical connection / 1 / for power supply6-pole terminal block• product component / 1 / fusing at power supply inputYesambient emperature0 60 °C• during operation0 60 °C• during storage-40 +70 °C• during transport-40 +70 °C• during transport-40 +70 °C• at 25 °C / without condensation / during operation / maximum95 %protection class IPIP20designBox 80 mmheight117 mm | type of electrical connection | |
| 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 7.2 W • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • supply voltage / 1 / rated value 7.2 W • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply 6-pole terminal block • product component / 1 / fusing at power supply input Yes ambient temperature 0 60 °C • during operation 0 60 °C • during transport -40 +70 °C • during transport 95 % relative humidity 95 % • at 25 °C / without condensation / during operation / maximum IP20 design 80 mm width 80 mm height 117 mm | for operator console | |
| 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 7.2 W • supply voltage / 1 / rated value 19.2 28.8 V • consumed current / 1 / maximum 0.3 A • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input 6-pole terminal block ambient conditions ambient temperature • during operation 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % maximum IP20 design Box width 80 mm height 117 mm | for management purposes | RJ45 |
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| supply voltage / 1 / rated value supply voltage / 1 / rated value power loss [W] / 1 / rated value supply voltage / 1 / rated value for once for once | | Yes |
| e power loss [W] / 1 / rated value 7.2 W supply voltage / 1 / rated value 19.2 28.8 V consumed current / 1 / maximum 0.3 A e type of electrical connection / 1 / for power supply 6-pole terminal block product component / 1 / fusing at power supply input Yes ambient conditions 0 60 °C ambient temperature 0 60 °C • during storage -40 +70 °C • during transport -40 +70 °C relative humidity 95 % more colors IP IP20 design, dimensions and weights Box design 80 mm height 117 mm | type of voltage / 1 / of the supply voltage | DC |
| supply voltage / 1 / rated value supply voltage / 1 / rated value consumed current / 1 / maximum type of electrical connection / 1 / for power supply product component / 1 / fusing at power supply input product component / 1 / fusing at power supply input product component / 1 / fusing at power supply input ambient conditions ambient temperature during operation 60 °C during storage -40 +70 °C elative humidity at 25 °C / without condensation / during operation / maximum protection class IP IP20 design design design design Box storms width Box storms Box storms at 70 mm | supply voltage / 1 / rated value | 24 V |
| consumed current / 1 / maximum consumed current / 1 / maximum type of electrical connection / 1 / for power supply product component / 1 / fusing at power supply input product component / 1 / fusing at power supply input ambient conditions ambient temperature during operation 60 °C during storage -40 +70 °C elative humidity at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design Box 80 mm height 117 mm | power loss [W] / 1 / rated value | 7.2 W |
| • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input6-pole terminal block Yesambient conditionsambient temperature • during operation • during storage • during transport0 60 °C • 40 +70 °C • 40 +70 °C • 40 +70 °Crelative humidity • at 25 °C / without condensation / during operation / | supply voltage / 1 / rated value | 19.2 28.8 V |
| product component / 1 / fusing at power supply input Yes ambient conditions ambient temperature • during operation • during storage • during storage • during transport • during transport • at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design width height Box s0 mm 117 mm Yes Ambient conditions Yes ambient conditions Ves ambient temperature • during operation 0 60 °C -40 +70 °C e during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design width height IIP20 design IIP20 design IIP20 II | consumed current / 1 / maximum | 0.3 A |
| ambient conditions ambient temperature • during operation • during storage • during storage • during transport -40 +70 °C • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights design Box width 80 mm height 117 mm | type of electrical connection / 1 / for power supply | 6-pole terminal block |
| ambient temperature 0 60 °C • during operation -40 +70 °C • during transport -40 +70 °C • during transport -40 +70 °C relative humidity -40 +70 °C • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights Box width 80 mm height 117 mm | | Yes |
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| • during storage -40 +70 °C • during transport -40 +70 °C relative humidity -40 +70 °C • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights 80 mm design 80 mm height 117 mm | ambient temperature | |
| • during transport-40 +70 °Crelative humidity95 %• at 25 °C / without condensation / during operation / maximum95 %protection class IPIP20design, dimensions and weightsBoxdesign80 mmheight117 mm | • | |
| relative humidity 95 % • at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights Box width 80 mm height 117 mm | | |
| • at 25 °C / without condensation / during operation / maximum95 %protection class IPIP20design, dimensions and weightsdesign, dimensions and weightsdesignBoxwidth80 mmheight117 mm | | -40 +70 °C |
| maximum IP20 design, dimensions and weights IP20 design, dimensions and weights Box width 80 mm height 117 mm | 5 | |
| protection class IPIP20design, dimensions and weightsBoxdesignBoxwidth80 mmheight117 mm | | 95 % |
| design, dimensions and weights design Box width 80 mm height 117 mm | | IP20 |
| design Box width 80 mm height 117 mm | | |
| width 80 mm height 117 mm | | Box |
| | • | 80 mm |
| | height | 117 mm |
| depth 109 mm | • | 109 mm |

| net weight | 0.35 kg |
|---|---|
| material / of the enclosure | Plastic |
| fastening method | |
| 35 mm top hat DIN rail mounting | Yes |
| product features, product functions, product components | / general |
| cascading in the case of a redundant ring / at | 50 |
| reconfiguration time of <\~0.3\~s | |
| cascading in cases of star topology | any (depending only on signal propagation time) |
| product functions / management, configuration, engineeri | ng |
| product function | |
| • CLI | Yes |
| web-based management | Yes |
| MIB support | Yes |
| • TRAPs via email | Yes |
| configuration with STEP 7 | Yes |
| RMON | Yes |
| port mirroring multiport mirroring | Yes |
| multiport mirroring CoS | No Yes |
| PROFINET IO diagnosis | Yes |
| PROFINET TO diagnosis PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1522 byte |
| protocol / is supported | |
| Telnet | Yes |
| • HTTP | Yes |
| • HTTPS | Yes |
| • TFTP | Yes |
| • FTP | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| • EtherNet/IP | Yes |
| • SNMP v1 | Yes |
| • SNMP v2 | Yes |
| • SNMP v3 | Yes |
| IGMP (snooping/querier) identification & maintenance function | Yes |
| 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 |
| SysLog | Yes |
| loopback diagnostics | Yes |
| product functions / VLAN | |
| product function | |
| VLAN - port based | 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 manager | Yes |
| high speed redundancy protocol (HRP) with standby | Yes |
| redundancy | |
| protocol / is supported / Media Redundancy Protocol | Yes |
| (MRP) | |

| product function | |
|---|--|
| media redundancy protocol (MRP) with redundancy manager | Yes |
| manager | Voc |
| Media Redundancy Protocol Interconnection (MRP- I) | Yes |
| redundancy procedure STP | Yes |
| redundancy procedure RSTP | Yes |
| redundancy procedure RSTP+ | Yes |
| Parallel Redundancy Protocol (PRP)/operation in | No |
| the PRP-network | |
| passive listening | Yes |
| protocol / is supported | |
| • 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 |
| • SSL | Yes |
| product functions / time | |
| product function | |
| SICLOCK support | Yes |
| NTP-client | Yes |
| SNTP client | Yes |
| protocol / is supported | |
| • SNTP | Yes |
| standards, specifications, approvals | |
| standard | |
| for emitted interference | EN 61000-6-4 (Class A) |
| for interference immunity | EN 61000-6-2 |
| IT security for industrial automation systems / according to | Yes |
| IEC 62443-4-2:2019 | |
| 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 |
| certificate of suitability / RoHS conformity | Yes; 2011/65/EU |
| 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 |
| certificate of suitability | |
| CCC / for hazardous zone according to GB standard | Yes |
| for cULus HazLoc / as File Nr. | E240480 (NWHP, NWHP7) |
| standards, specifications, approvals / other | |
| certificate of suitability | EN 61000-6-2, EN 61000-6-4 |
| C-Tick | Yes |
| KC approval | Yes |
| further information / internet-Links | |
| Internet-Link | |
| | http://www.siemens.com/tia-selection-tool |
| to web page: selection aid TIA Selection Tool to website: Industrial communication | http://www.siemens.com/simatic-net |
| to website: Industrial communication to website: Industry Mall | https://www.siemens.com/simalic-net |
| | http://www.siemens.com/industry/infocenter |
| to website: Information and Download Center to website: Image database | http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb |
| to website: Image database | nup.//automation.siemens.com/bildub |
| | http://www.siemens.com/cax |
| to website: CAx-Download-Manager to website: Industry Online Support | http://www.siemens.com/cax |
| to website: Industry Online Support | http://www.siemens.com/cax https://support.industry.siemens.com |
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