SIEMENS

## Data sheet 6GK5204-0JA10-2BA6



SCALANCE X204IRT PRO, managed IE IRT switch with degree of protection IP65/67, 4x 10/100 Mbps push-pull RJ45 ports, error signaling contact with set button; power supply (load/encoder); PROFINET IO device, network management, Redundancy Manager integrated, including electronic manual on CD-ROM, C-PLUG optional

| | |
|---|---|
| **product type designation** | |
| product brand name | SCALANCE |
| product type designation | X204IRT PRO |
| Technical Product Detail Page | https://i.siemens.com/1P6GK5204-0JA10-2BA6 |
| **transfer rate** | |
| transfer rate | 10, 100 Mbit/s |
| **interfaces / for communication / integrated** | |
| number of electrical connections | |
| ● for network components or terminal equipment | 4 |
| **interfaces / other** | |
| number of electrical connections | |
| ● for signaling contact | 1 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● for signaling contact | 5-pole M12 port |
| ● for power supply | 5-pole push-pull connector PRO socket |
| 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 | 3.4 W |
| ● supply voltage / 1 / voltage range | 18 ... 32 |
| ● consumed current / 1 / maximum | 0.14 A |
| ● type of electrical connection / 1 / for power supply | 5-pole push-pull connector PRO socket |
| ● product component / 1 / fusing at power supply input | Yes |
| ● fuse protection type / 1 / at input for supply voltage | 2.5 A (cannot be replaced 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 / | 95 % |


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| | |
|---|---|
| maximum | |
| protection class IP | IP65 |
| **design, dimensions and weights** | |
| design | compact |
| width | 90 mm |
| height | 125 mm |
| depth | 124 mm |
| net weight | 1 kg |
| fastening method | |
| ● 35 mm DIN-rail mounting | Yes |
| ● wall mounting | Yes |
| ● S7-300 rail mounting | Yes |
| ● 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 | 100 |
| 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 | No |
| ● multiport mirroring | No |
| ● with IRT / PROFINET IO switch | Yes |
| ● PROFINET IO diagnosis | Yes |
| ● switch-managed | Yes |
| PROFINET conformity class | C |
| network load class / according to PROFINET | II |
| protocol / is supported | |
| ● Telnet | Yes |
| ● HTTP | Yes |
| ● HTTPS | Yes |
| ● TFTP | Yes |
| ● FTP | 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 | |
| ● media redundancy protocol (MRP) with redundancy | Yes |


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| | |
|---|---|
| manager | |
| ● ring redundancy | Yes |
| ● high speed redundancy protocol (HRP) with redundancy manager | Yes |
| ● high speed redundancy protocol (HRP) with standby redundancy | Yes |
| ● Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| ● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| ● passive listening | Yes |
| **product functions / security** | |
| protocol / is supported | |
| ● SSH | Yes |
| **product functions / time** | |
| product function | |
| ● SICLOCK support | Yes |
| protocol / is supported | |
| ● NTP | No |
| ● SNTP | Yes |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UKCA marking | Yes |
| ● EC Declaration of Conformity EN 61010, IEC 61010-1, UL 61010A-1 | 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 |
| ● for safety / from CSA and UL | UL 61010-1, CAN/CSA C22.2 No. 61010-1 |
| **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 |
| resistance to air pollution / conformity according to ANSI/ISA-71.04 | Yes; G3 |
| **standards, specifications, approvals / marine classification** | |
| certificate of suitability / shipbuilding approval / note | Certifications marked 'No' are currently under renewal. |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | No |
| ● French marine classification society (BV) | No |
| ● Chinese Classification Society (CCS) | No |
| ● Det Norske Veritas (DNV) | No |
| ● Korean Register of Shipping (KRS) | No |
| ● Lloyds Register of Shipping (LRS) | No |
| ● Nippon Kaiji Kyokai (NK) | No |
| ● Polski Rejestr Statkow (PRS) | No |
| ● Royal Institution of Naval Architects (RINA) | No |


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| standards, specifications, approvals / Environmental Product Declaration | |
|---|---|
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 137.57 kg |
| ● during manufacturing | 29.12 kg |
| ● during operation | 108.22 kg |
| ● after end of life | 0.23 kg |
| **product functions / general** | |
| MTBF | 85.24 a |
| 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 | |
|---|---|
| Environmental Product Declaration | |
| ● global warming potential [CO2 eq] / during manufacturing | 29.12 kg |
| ● global warming potential [CO2 eq] / during operation | 108.22 kg |
| ● global warming potential [CO2 eq] / after end of life | 0.23 kg |
| ● global warming potential [CO2 eq] / total | 137.57 kg |

| Environment | General Product Approval | | | | |
|---|---|---|---|---|---|
| EPD | CE EG-Konf. | EAC | UL | Miscellaneous | RCM |

| General Product Approval | | | For use in hazardous locations | | |
|---|---|---|---|---|---|
| CE EG-Konf. | China RoHS | UKCA | IECEx | ATEX | FM |

| For use in hazard-ous locations | Test Certificates | Maritime application | Industrial Communication |
|---|---|---|---|


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CCC-Ex

Type Test Certific-ates/Test Report

PRS

PROFINET

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