

SCALANCE X200-4PIRT managed IE IRT switch, 4x 100 Mbit/s POF SC RJ ports, Error signaling contact with set button, Redundant power supply, PROFINET IO device, network management, Redundancy Manager integrated, incl. electron. manual on CD-ROM, C-plug optional



|  |                       |
|--|-----------------------|
| Product type designation   | SCALANCE X200-4P IRT  |
| Transfer rate  |                       |
| Transfer rate  | 10 Mbit/s, 100 Mbit/s |
| Interfaces / for communication / Integrated  |                       |
| number of 100 Mbit/s SC-RJ-ports / for POF FOC                                     |                       |
| <ul style="list-style-type: none"> <li>with push-pull connection system</li> </ul> | 4                     |
| Interfaces / other   |                       |
| Number of electrical connections   |                       |
| <ul style="list-style-type: none"> <li>for signaling contact</li> </ul>            | 1                     |
| <ul style="list-style-type: none"> <li>for power supply</li> </ul>                 | 1                     |
| <ul style="list-style-type: none"> <li>for redundant voltage supply</li> </ul>     | 1                     |
| Type of electrical connection  |                       |
| <ul style="list-style-type: none"> <li>for signaling contact</li> </ul>            | 2-pole terminal block |
| <ul style="list-style-type: none"> <li>for power supply</li> </ul>                 | 4-pole terminal block |
| design of the removable storage  |                       |
| <ul style="list-style-type: none"> <li>C-PLUG</li> </ul>                           | Yes                   |
| Signal inputs/outputs  |                       |

|   |       |
|---|-------|
| Operating voltage / of the signaling contacts                           |       |
| <ul style="list-style-type: none"> <li>• at DC / Rated value</li> </ul> | 24 V  |
| Operating current / of the signaling contacts                           |       |
| <ul style="list-style-type: none"> <li>• at DC / maximum</li> </ul>     | 0.1 A |

#### Supply voltage, current consumption, power loss

|  |              |
|--|--------------|
| Type of voltage / of the supply voltage                                | DC           |
| Supply voltage   |              |
| <ul style="list-style-type: none"> <li>• external</li> </ul>           | 24 V         |
| <ul style="list-style-type: none"> <li>• external / minimum</li> </ul> | 18 V         |
| <ul style="list-style-type: none"> <li>• external / maximum</li> </ul> | 32 V         |
| Product component / fusing at power supply input                       | Yes          |
| Fuse protection type / at input for supply voltage                     | 1.1 A / 33 V |
| Consumed current / maximum   | 0.4 A        |
| Power loss [W]   |              |
| <ul style="list-style-type: none"> <li>• at DC / at 24 V</li> </ul>    | 9.6 W        |

#### Ambient conditions

|  |                |
|--|----------------|
| Ambient temperature  |                |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>   | -25 ... +40 °C |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -40 ... +70 °C |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>   | -40 ... +70 °C |
| Relative humidity  |                |
| <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul> | 95 %           |
| Protection class IP  | IP30           |
| Design   | compact        |
| Width  | 60 mm          |
| Height   | 125 mm         |
| Depth  | 124 mm         |
| Net weight   | 0.78 kg        |
| Mounting type  |                |
| <ul style="list-style-type: none"> <li>• 35 mm DIN rail mounting</li> </ul>                                      | Yes            |
| <ul style="list-style-type: none"> <li>• wall mounting</li> </ul>  | Yes            |
| <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>   | Yes            |
| <ul style="list-style-type: none"> <li>• S7-1500 rail mounting</li> </ul>  | No             |

#### Product features, product functions, product components / general

|   |   |
|---|---|
| Cascading in the case of a redundant ring / at reconfiguration time of $\sim 0.3$ s | 50  |
| Cascading in cases of star topology   | any (depending only on signal propagation time) |

#### Product functions / management, configuration, engineering

|   |     |
|---|-----|
| Product function  |     |
| <ul style="list-style-type: none"> <li>• CLI</li> </ul> | 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 |
| PROFINET conformity class                                      | C   |
| Product function / switch-managed                              | Yes |
| 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 |
| <b>Product functions / Diagnostics</b>                         |     |
| Product function   |     |
| • Port diagnostics   | Yes |
| • Statistics Packet Size                                       | Yes |
| • Statistics packet type                                       | Yes |
| • Error statistics   | Yes |
| <b>Product functions / DHCP</b>                                |     |
| Product function   |     |
| • DHCP client  | Yes |
| <b>Product functions / redundancy</b>                          |     |
| Product function   |     |
| • Ring redundancy  | Yes |
| • High Speed Redundancy Protocol (HRP)                         | Yes |
| • high speed redundancy protocol (HRP) with redundancy manager | Yes |

|   |     |
|---|-----|
| <ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>      | Yes |
| Protocol / is supported / Media Redundancy Protocol (MRP)   | Yes |
| Product function  |     |
| <ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>           | Yes |
| <ul style="list-style-type: none"> <li>• Media Redundancy Protocol for Planned Duplication (MRPD)</li> </ul>          | Yes |
| <ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>   | Yes |
| <ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul> | No  |
| <ul style="list-style-type: none"> <li>• Passive listening</li> </ul>   | Yes |

### Product functions / Security

|   |     |
|---|-----|
| Protocol / is supported                                 |     |
| <ul style="list-style-type: none"> <li>• SSH</li> </ul> | Yes |

### Product functions / time

|   |     |
|---|-----|
| Product function  |     |
| <ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul> | Yes |
| Protocol / is supported   |     |
| <ul style="list-style-type: none"> <li>• NTP</li> </ul>             | No  |
| <ul style="list-style-type: none"> <li>• SNTP</li> </ul>            | Yes |

### Standards, specifications, approvals

|  |  |
|--|--|
| Standard   |  |
| <ul style="list-style-type: none"> <li>• for FM</li> </ul>                               | FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4                                   |
| <ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>                   | EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X                                    |
| <ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>         | UL 60950-1, CSA C22.2 No. 60950-1  |
| <ul style="list-style-type: none"> <li>• for hazardous zone / from CSA and UL</li> </ul> | ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4 |
| <ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>             | EN 61000-6-4:2001  |
| <ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>            | EN 61000-6-2:2001  |

### Standards, specifications, approvals / CE

|   |     |
|---|-----|
| Certificate of suitability / CE marking | Yes |
|---|-----|

### Standards, specifications, approvals / other

|   |                                      |
|---|--------------------------------------|
| Certificate of suitability  | EN 61000-6-2:2001, EN 61000-6-4:2001 |
| <ul style="list-style-type: none"> <li>• C-Tick</li> </ul>  | Yes                                  |
| <ul style="list-style-type: none"> <li>• Railway application in accordance with EN 50155</li> </ul> | No                                   |

- Railway application in accordance with EN 50124-1
- KC approval

No

Yes

### Standards, specifications, approvals / Product conformity

MTBF 73.06 y

### accessories

Product extension / optional / C-PLUG Yes

### Further information / Internet-Links

#### Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL <http://www.siemens.com/snst>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://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 security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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