

### Product type designation



### SCALANCE X200-4P IRT

SCALANCE X200-4PIRT MANAGED IE IRT SWITCH, 4 X 100MBIT/S POF SC RJ PORTS, FAULT SIGNAL CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY, PROFINET-IO DEVICE, NETWORK MANAGEMENT, RED.- MANAGER INTEGRATED, INCL. ELECTRON. MANUAL ON CD, C-PLUG OPTIONAL

### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
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### Interfaces

Number of electrical/optical connections	4
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> </ul>	
Design of electrical/optical connections / for network components or terminal equipment	SC RJ
Number of optical interfaces	4
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	
Design of the optical interface	SC-RJ/POF port
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	
Connectable optical power relative to 1 mW	-8 ... -2
<ul style="list-style-type: none"> <li>of the transmitter output</li> </ul>	
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-25 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 0.05 km

### Interfaces / for communication / integrated

Number of 100 Mbit/s SC ports / for multimode	4
Number of 1000 Mbit/s LC ports / for multimode	0

### Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> <li>• for redundant voltage supply</li> </ul>	<p>1</p> <p>1</p> <p>1</p>
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	<p>2-pole terminal block</p> <p>4-pole terminal block</p>
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>• for DC / Rated value</li> </ul>	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> <li>• for 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> <li>• external</li> </ul>	<p>24 V</p> <p>18 ... 32 V</p>
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
Active power loss	
<ul style="list-style-type: none"> <li>• for DC / at 24 V</li> </ul>	9.6 W

#### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	<p>-25 ... +40 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p>
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, dimensions and weight

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

- wall mounting Yes
- S7-300 rail mounting Yes
- S7-1500 rail mounting No

#### Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of <math>\leq 0.3\text{ s}</math>	50
Cascading in cases of star topology	Any (depending only on signal propagation time)

#### Product functions / management, configuration

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
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• DCP	Yes
• LLDP	Yes
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes

#### Product functions / Diagnosis

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
• 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 for Planned Duplication (MRPD)	Yes
• Passive listening	Yes
<b>Product functions / Security</b>	
Protocol / is supported	
• SSH	Yes
<b>Product functions / Time</b>	
Product function	
• SICLOCK support	Yes
Protocol / is supported	
• NTP	No
• SNTP	Yes
<b>Standards, specifications, approvals</b>	
Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous zone / from CSA and 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
• for emitted interference	EN 61000-6-4:2001
• for interference immunity	EN 61000-6-2:2001
Certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001

<ul style="list-style-type: none"> <li>• CE marking</li> <li>• C-Tick</li> <li>• KC approval</li> <li>• Railway application in accordance with EN 50155</li> <li>• Railway application in accordance with EN 50124-1</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p>
<p>Marine classification association</p> <ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
<p>MTBF / at 40 °C</p>	<p>73.06 y</p>

#### Further Information / Internet Links

<p>Internet-Link</p> <ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
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