

SCALANCE X204RNA EEC; redundant network access 2x 100 Mbit/s RJ45 ports; 2x 100 Mbit/s combo ports; LED diagnostics; error signaling contact with set button; simple power supply; network management; incl. electronic manual on CD-ROM, C-plug optional for HSR network;



<b>Product type designation</b>	<b>SCALANCE X204RNA EEC</b>
<b>Transfer rate</b>	
Transfer rate	10 Mbit/s, 100 Mbit/s
<b>Interfaces / for communication / Integrated</b>	
Number of electrical connections	
• for network components or terminal equipment	2
Number of combo ports / with RJ45 interface for optical plug-in transceiver	2
<b>Interfaces / other</b>	
Number of electrical connections	
• for signaling contact	1
• for power supply	1
• for redundant voltage supply	1
Type of electrical connection	
• for signaling contact	3-pole terminal block
• for power supply	3-pole terminal block
design of the removable storage	
• C-PLUG	Yes

## Signal inputs/outputs

Operating voltage / of the signaling contacts	
• at AC / Rated value	230 V
• at DC / Rated value	24 V
Operating current / of the signaling contacts	
• at AC / maximum	0.1 A
• at DC / maximum	0.1 A

## Supply voltage, current consumption, power loss

Supply voltage	
• at AC	230 V
• at AC / rated value	85 ... 276 V
<b>Supply voltage / 2 / Rated value</b>	
• Type of voltage / 2 / of the supply voltage	DC
Supply voltage / at DC	24 V
• rated value	19.2 ... 300 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	1.25 A
Consumed current / maximum	0.25 A
Power loss [W]	
• at DC / at 24 V	6 W

## Ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• Note	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

## Design, dimensions and weights

Design	compact
Width	70 mm
Height	147 mm
Depth	123 mm
Net weight	0.78 kg
Product feature / conformal coating	Yes
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	No

- S7-300 rail mounting No
- S7-1500 rail mounting No

### Product functions / management, configuration, engineering

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	No
• Port mirroring	No
• multiport mirroring	No
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	No
Product function / switch-managed	No
Protocol / is supported	
• Telnet	No
• HTTP	Yes
• HTTPS	Yes
• TFTP	No
• FTP	No
• BOOTP	No
• GMRP	No
• DCP	Yes
• LLDP	No
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	No
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 / redundancy

Product function	
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<ul style="list-style-type: none"> <li>• Ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High Speed Redundancy Protocol (HRP)</li> </ul>	No
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	No
<ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	No
Protocol / is supported / Media Redundancy Protocol (MRP)	No
Product function	
<ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>	No
<ul style="list-style-type: none"> <li>• High-availability Seamless Redundancy (HSR)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• High-availability Seamless Redundancy (HSR) and Parallel Redundancy Protocol (PRP) coupling</li> </ul>	No
<ul style="list-style-type: none"> <li>• Passive listening</li> </ul>	No

#### 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>	No
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, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>	UL 508, CSA C22.2 No. 142-M1987
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-4:2001 (Class A)
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-4:2001
MTBF	67.64 y

#### Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
Standard	
<ul style="list-style-type: none"> <li>• for EMC</li> </ul>	IEC 61850, IEEE 1613

#### Standards, specifications, approvals / other

Certificate of suitability	EN 61000-6-4:2001
• C-Tick	Yes
• Railway application in accordance with EN 50155	Yes
• Railway application in accordance with EN 50121-4	Yes
• Railway application in accordance with EN 50124-1	No
• Fire protection in accordance with EN 45545-2	Yes
• IEC 61850-3	Yes
• IEEE 1613	Yes
• KC approval	Yes

### Standards, specifications, approvals / marine classification

Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• DNV GL	Yes
• 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

### accessories

Product extension / optional / C-PLUG	Yes
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### Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

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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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