

### Product type designation



### SCALANCE X204-2LD

SCALANCE X204-2LD, MANAGED IE SWITCH, 4 X 10/100MBIT/S RJ45 PORTS, 2 X 100MBIT/S SINGLEMODE BFOC, ERROR SIGNAL CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY, PROFINET-IO DEVICE, NETWORK MANAGEMENT, INTEGRATED REDUNDANCY MANAGER AND ELECTRONIC MANUAL ON CD, C-PLUG OPTIONAL

### Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s
---------------	-----------------------

### Interfaces

Number of electrical/optical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment / maximum</li> </ul>	6
Number of electrical connections	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	4
Type of electrical connection	
<ul style="list-style-type: none"> <li>for network components or terminal equipment</li> </ul>	RJ45 port
Number of optical interfaces	
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	2
Design of the optical interface	
<ul style="list-style-type: none"> <li>for fiber optic cable / at 100 Mbit/s</li> </ul>	BFOC port (singlemode up to 26 km)
Connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> <li>of the transmitter output</li> </ul>	-15 ... -7
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-34 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 26 km

### Interfaces / for communication / integrated

Number of 100 Mbit/s ST(BFOC) ports / for multimode	2
Number of 100 Mbit/s SC ports / for multimode	0
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>	1 1 1
Type of electrical connection	
<ul style="list-style-type: none"> <li>• for signaling contact</li> <li>• for power supply</li> </ul>	2-pole terminal block 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>• 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>	24 V 18 ... 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	0.6 A / 60 V
Consumed current / maximum	0.265 A
Active power loss	
<ul style="list-style-type: none"> <li>• for DC / at 24 V</li> </ul>	6.36 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>	-40 ... +60 °C -40 ... +70 °C -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, dimensions and weight

Design	compact
Width	60 mm

Height	125 mm
Depth	124 mm
Net weight	0.78 kg
Mounting type	
• 35 mm DIN rail mounting	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>	100
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	Yes
• multiport mirroring	No
• with IRT / PROFINET IO switch	No
• 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 |

## 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 redundancy | No  |

Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
---	-----

### Product function

- |   |     |
|---|-----|
| • media redundancy protocol (MRP) with redundancy manager | Yes |
| • 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

### 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 |

<ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	EN 61000-6-4 (Class A) EN 61000-6-2
<b>Certificate of suitability</b> <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>	EN 61000-6-2, EN 61000-6-4 Yes Yes Yes No No
<b>Marine classification association</b> <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>	Yes Yes Yes Yes Yes Yes Yes
<b>MTBF / at 40 °C</b>	74.64 y

### Further Information / Internet Links

<b>Internet-Link</b> <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>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
---	---

### 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)

**last modified:**

05.03.2015