

SCALANCE XR324-4M PoE; Managed IE switch, 19" rack; 8x 10/100/1000 Mbit/s for RJ45 ports electrical with PoE, 8x 10/100/1000 Mbit/s for RJ45 ports electrical without PoE 4x 10/100/1000 Mbit/s 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device; C-plug in scope of delivery; Power supply 230 V AC; Ports in the front



Figure similar

|  |                                    |
|--|------------------------------------|
| <b>Product type designation</b>  | <b>SCALANCE</b>                    |
| <b>Transmission rate</b>   |                                    |
| Transfer rate  | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s |
| <b>Interfaces / for communication / integrated</b>   |                                    |
| Number of electrical connections   |                                    |
| <ul style="list-style-type: none"> <li>• for network components or terminal equipment</li> </ul>                           | 16; RJ45                           |
| <ul style="list-style-type: none"> <li>• for Power-over-Ethernet / for network components or terminal equipment</li> </ul> | 8                                  |
| Number of 100 Mbit/s ST(BFOC) ports  |                                    |
| <ul style="list-style-type: none"> <li>• for multimode</li> </ul>  | 8                                  |
| Number of 100 Mbit/s SC ports  |                                    |
| <ul style="list-style-type: none"> <li>• for multimode</li> </ul>  | 8                                  |
| Number of 1000 Mbit/s LC ports   |                                    |
| <ul style="list-style-type: none"> <li>• for multimode</li> </ul>  | 8                                  |
| <ul style="list-style-type: none"> <li>• for single mode (LD)</li> </ul>   | 8                                  |
| <b>Interfaces / others</b>   |                                    |

|  |                       |
|--|-----------------------|
| Number of electrical connections   |                       |
| <ul style="list-style-type: none"> <li>• for operator console</li> </ul>         | 1                     |
| <ul style="list-style-type: none"> <li>• for signaling contact</li> </ul>        | 1                     |
| <ul style="list-style-type: none"> <li>• for media module</li> </ul>             | 4                     |
| <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> | 0                     |
| Type of electrical connection  |                       |
| <ul style="list-style-type: none"> <li>• for operator console</li> </ul>         | RJ11                  |
| <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>             | 2-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 supply / redundant power supply unit                   | No    |
| Type of voltage / of the supply voltage                                | AC    |
| Supply voltage   |       |
| <ul style="list-style-type: none"> <li>• external</li> </ul>           | 230 V |
| <ul style="list-style-type: none"> <li>• external / minimum</li> </ul> | 85 V  |
| <ul style="list-style-type: none"> <li>• external / maximum</li> </ul> | 264 V |
| Product component / fusing at power supply input                       | Yes   |
| Consumed current / maximum   | 1 A   |
| Power loss [W]   |       |
| <ul style="list-style-type: none"> <li>• at AC / at 230 V</li> </ul>   | 46 W  |

### Permitted ambient conditions

|  |  |
|--|--|
| Ambient temperature  |  |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>   | -40 ... +70 °C   |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -40 ... +85 °C   |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>   | -40 ... +85 °C   |
| <ul style="list-style-type: none"> <li>• Note</li> </ul>   | With vertical installation, the maximum operating temperature is reduced to 60 °C. |
| Relative humidity  |  |
| <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul> | 95 %   |
| Protection class IP  | IP20   |

### Design, dimensions and weight

|        |          |
|--------|----------|
| Design | 19" rack |
|--------|----------|

|   |  |
|---|--|
| Number of modular height units / relating to 19-inch cabinet  | 1  |
| Width   | 449 mm   |
| Height  | 43.6 mm  |
| Depth   | 305 mm   |
| Net weight  | 6.8 kg   |
| Mounting type   | When used in shipbuilding, the device must be secured in the 19" rack at four points |
| <ul style="list-style-type: none"> <li>• 19-inch installation</li> <li>• 35 mm DIN rail mounting</li> <li>• wall mounting</li> <li>• S7-300 rail mounting</li> <li>• S7-1500 rail mounting</li> </ul> | <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>                                   |

**Product properties, functions, components / general**

|  |   |
|--|---|
| Cascading in the case of a redundant ring / at reconfiguration time of <math>\sim 0.3</math>-s | 100   |
| Cascading in cases of star topology  | any (depending only on signal propagation time) |

**Product functions / management, configuration**

|   |   |
|---|---|
| Product function  |   |
| <ul style="list-style-type: none"> <li>• CLI</li> <li>• web-based management</li> <li>• MIB support</li> <li>• TRAPs via email</li> <li>• Configuration with STEP 7</li> <li>• RMON</li> <li>• Port mirroring</li> <li>• multiport mirroring</li> <li>• CoS</li> <li>• PROFINET IO diagnosis</li> </ul> | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| PROFINET conformity class   | B   |
| Product function / switch-managed   | Yes   |
| Protocol / is supported   |   |
| <ul style="list-style-type: none"> <li>• Telnet</li> <li>• HTTP</li> <li>• HTTPS</li> <li>• TFTP</li> <li>• FTP</li> <li>• BOOTP</li> <li>• GMRP</li> <li>• DCP</li> <li>• LLDP</li> <li>• SNMP v1</li> </ul>   | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |

|  |     |
|--|-----|
| • SNMP v2  | Yes |
| • SNMP v3  | Yes |
| • IGMP (snooping/querier)                              | Yes |
| <b>Identification &amp; maintenance function</b>       |     |
| • I&M0 - device-specific information                   | Yes |
| • I&M1 – higher-level designation/location designation | Yes |

### Product functions / Diagnosis

|                          |     |
|--------------------------|-----|
| <b>Product function</b>  |     |
| • Port diagnostics       | Yes |
| • Statistics Packet Size | Yes |
| • Statistics packet type | Yes |
| • Error statistics       | Yes |
| • SysLog                 | Yes |

### Product functions / VLAN

|                                     |     |
|-------------------------------------|-----|
| <b>Product function</b>             |     |
| • VLAN - port based                 | Yes |
| • VLAN - protocol-based             | No  |
| • VLAN - IP-based                   | No  |
| • VLAN dynamic                      | Yes |
| Number of VLANs / maximum           | 255 |
| Number of VLANs - dynamic / maximum | 255 |
| Protocol / is supported / GVRP      | Yes |

### Product functions / DHCP

|                         |     |
|-------------------------|-----|
| <b>Product function</b> |     |
| • DHCP client           | Yes |
| • DHCP Option 82        | Yes |
| • DHCP Option 66        | Yes |
| • DHCP Option 67        | Yes |

### Product functions / Redundancy

|  |     |
|--|-----|
| <b>Product function</b>  |     |
| • 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 |
| <b>Product function</b>  |     |

|   |     |
|---|-----|
| <ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul> | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>                                | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>                               | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>                               | Yes |
| <ul style="list-style-type: none"> <li>• Passive listening</li> </ul>                                       | Yes |
| Protocol / is supported   |     |
| <ul style="list-style-type: none"> <li>• STP/RSTP</li> </ul>  | Yes |
| <ul style="list-style-type: none"> <li>• STP</li> </ul>   | Yes |
| <ul style="list-style-type: none"> <li>• RSTP</li> </ul>  | Yes |
| <ul style="list-style-type: none"> <li>• MSTP</li> </ul>  | Yes |
| <ul style="list-style-type: none"> <li>• RSTP big network support</li> </ul>                                | Yes |
| <ul style="list-style-type: none"> <li>• LACP</li> </ul>  | Yes |

### Product functions / Security

|   |     |
|---|-----|
| Product function  |     |
| <ul style="list-style-type: none"> <li>• ACL - MAC-based</li> </ul>                     | Yes |
| <ul style="list-style-type: none"> <li>• ACL - port/MAC-based</li> </ul>                | Yes |
| <ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>                | Yes |
| <ul style="list-style-type: none"> <li>• Broadcast/Multicast/Unicast Limiter</li> </ul> | Yes |
| <ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>                  | Yes |
| 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>                       | Yes |
| <ul style="list-style-type: none"> <li>• SNTP</li> </ul>                      | Yes |
| <ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul> | Yes |

### Standards, specifications, approvals

|  |                                 |
|--|---------------------------------|
| Standard   |                                 |
| <ul style="list-style-type: none"> <li>• for hazardous zone</li> </ul>                   | -                               |
| <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 hazardous zone / from CSA and UL</li> </ul> | No                              |
| <ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>             | EN 61000-6-4:2007 (Class A)     |
| <ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>            | EN 61000-6-2:2006               |

### Standards, specifications, approvals / CE

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

### Standards, specifications, approvals / miscellaneous

|                            |                                      |
|----------------------------|--------------------------------------|
| Certificate of suitability | EN 61000-6-2:2006, EN 61000-6-4:2007 |
|----------------------------|--------------------------------------|

- C-Tick Yes
- KC approval Yes

### Standards, specifications, approvals / ship classification

- Marine classification association
- Bureau Veritas (BV) Yes
  - Korean Register of Shipping (KRS) 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

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