

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, Power supply 24 V DC; Ports at the back



Figure similar

| | |
|--|------------------------------------|
| Product type designation | SCALANCE XR324-4M PoE |
| Transfer rate | |
| Transfer rate | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s |
| Interfaces / for communication / Integrated | |
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for network components or terminal equipment | 16; RJ45 |
| <ul style="list-style-type: none"> • for Power-over-Ethernet / for network components or terminal equipment | 8 |
| Number of 100 Mbit/s ST(BFOC) ports | |
| <ul style="list-style-type: none"> • for multimode | 8 |
| Number of 100 Mbit/s SC ports | |
| <ul style="list-style-type: none"> • for multimode | 8 |
| Number of 1000 Mbit/s LC ports | |
| <ul style="list-style-type: none"> • for multimode | 8 |
| <ul style="list-style-type: none"> • for single mode (LD) | 8 |
| Interfaces / other | |

| | |
|---|---|
| Number of electrical connections | |
| <ul style="list-style-type: none"> • for operator console • for signaling contact • for media module • for power supply • for redundant voltage supply | <p>1</p> <p>1</p> <p>4</p> <p>1</p> <p>1</p> |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for operator console • for signaling contact • for power supply | <p>RJ11</p> <p>2-pole terminal block</p> <p>4-pole terminal block</p> |
| design of the removable storage | |
| <ul style="list-style-type: none"> • C-PLUG | Yes |

Signal inputs/outputs

| | |
|---|-------|
| Operating voltage / of the signaling contacts | |
| <ul style="list-style-type: none"> • at DC / Rated value | 24 V |
| Operating current / of the signaling contacts | |
| <ul style="list-style-type: none"> • at DC / maximum | 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 | DC |
| Supply voltage | |
| <ul style="list-style-type: none"> • external • external / minimum • external / maximum | <p>24 V</p> <p>19.2 V</p> <p>28.8 V</p> |
| Product component / fusing at power supply input | Yes |
| Fuse protection type / at input for supply voltage | F 5 A / 250 V |
| Consumed current / maximum | 4.2 A |
| Power loss [W] | |
| <ul style="list-style-type: none"> • at DC / at 24 V | 46 W |

Ambient conditions

| | |
|--|---|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport • Note | <p>-40 ... +60 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>With vertical installation, the maximum operating temperature is reduced to 60 °C.</p> |
| Relative humidity | |
| <ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum | 95 % |
| Protection class IP | IP20 |
| 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"> • 19-inch installation • 35 mm DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting | <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> |

Product features, product functions, product components / general

| | |
|---|---|
| Cascading in the case of a redundant ring / at reconfiguration time of $\sim 0.3\text{ s}$ | 100 |
| 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"> • CLI • web-based management • MIB support • TRAPs via email • Configuration with STEP 7 • RMON • Port mirroring • multiport mirroring • CoS • PROFINET IO diagnosis | <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"> • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 | <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 |
| 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 |
| • SysLog | Yes |

Product functions / VLAN

| | |
|-------------------------------------|-----|
| Product function | |
| • 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

| | |
|------------------|-----|
| Product function | |
| • DHCP client | Yes |
| • DHCP Option 82 | Yes |
| • DHCP Option 66 | Yes |
| • DHCP Option 67 | 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 | Yes |
| Protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| Product function | |

| | |
|---|-----|
| <ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager | Yes |
| <ul style="list-style-type: none"> • redundancy procedure STP | Yes |
| <ul style="list-style-type: none"> • redundancy procedure RSTP | Yes |
| <ul style="list-style-type: none"> • redundancy procedure MSTP | Yes |
| <ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/operation in the PRP-network | Yes |
| <ul style="list-style-type: none"> • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) | No |
| <ul style="list-style-type: none"> • Passive listening | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • STP/RSTP | Yes |
| <ul style="list-style-type: none"> • STP | Yes |
| <ul style="list-style-type: none"> • RSTP | Yes |
| <ul style="list-style-type: none"> • MSTP | Yes |
| <ul style="list-style-type: none"> • RSTP big network support | Yes |
| <ul style="list-style-type: none"> • LACP | Yes |

Product functions / Security

| | |
|---|-----|
| Product function | |
| <ul style="list-style-type: none"> • ACL - MAC-based | Yes |
| <ul style="list-style-type: none"> • ACL - port/MAC-based | Yes |
| <ul style="list-style-type: none"> • IEEE 802.1x (radius) | Yes |
| <ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Limiter | Yes |
| <ul style="list-style-type: none"> • broadcast blocking | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • SSH | Yes |

Product functions / time

| | |
|---|-----|
| Product function | |
| <ul style="list-style-type: none"> • SICLOCK support | Yes |
| Protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |
| <ul style="list-style-type: none"> • SNTP | Yes |
| <ul style="list-style-type: none"> • IEEE 1588 profile default | Yes |

Standards, specifications, approvals

| | |
|--|---|
| Standard | |
| <ul style="list-style-type: none"> • for FM | FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 |
| <ul style="list-style-type: none"> • for hazardous zone | 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"> • for safety / from CSA and UL | UL 60950-1, CSA C22.2 No. 60950-1 |

- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
 EN 61000-6-4:2007 (Class A)
 EN 61000-6-2:2006

Standards, specifications, approvals / CE

Certificate of suitability / CE marking Yes

Standards, specifications, approvals / other

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

- C-Tick Yes
- KC approval Yes

Standards, specifications, approvals / marine classification

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- Bureau Veritas (BV) Yes
- Det Norske Veritas (DNV) No
- Germanische Lloyd (GL) No
- DNV GL Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (NK) Yes
- Polski Rejestr Statkow (PRS) No
- Royal Institution of Naval Architects (RINA) Yes

Standards, specifications, approvals / Product conformity

MTBF 15 y

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

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