

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 1x 24 V DC; Ports in the front



Figure similar

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| product type designation | SCALANCE XR324-4M EEC |
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s |
| interfaces / for communication / integrated | |
| number of electrical connections • for network components or terminal equipment | 16; RJ45 |
| number of 100 Mbit/s ST(BFOC) ports • for multimode | 8 |
| number of 100 Mbit/s SC ports • for multimode | 8 |
| number of 1000 Mbit/s LC ports • for multimode • for single mode (LD) | 8 8 |
| interfaces / other | |
| number of electrical connections • for operator console • for signaling contact • for media module • for power supply | 1 1 4 1 |
| type of electrical connection • for operator console • for signaling contact • for power supply | RJ11 2-pole terminal block 4-pole terminal block |
| design of the removable storage • C-PLUG | Yes |
| signal inputs/outputs | |
| operating voltage / of the signaling contacts • at DC / rated value | 24 V |
| operational current / of the signaling contacts • at DC / maximum | 0.1 A |
| supply voltage, current consumption, power loss | |
| type of voltage supply / redundant power supply unit | No |
| type of voltage / 1 / of the supply voltage • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value | DC 24 V 40 W 19.2 ... 57.6 V |

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| <ul style="list-style-type: none"> consumed current / 1 / maximum | 1.6 A |
| <ul style="list-style-type: none"> type of electrical connection / 1 / for power supply | 4-pole terminal block |
| <ul style="list-style-type: none"> product component / 1 / fusing at power supply input | Yes |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation | -40 ... +70 °C |
| <ul style="list-style-type: none"> during storage | -40 ... +85 °C |
| <ul style="list-style-type: none"> during transport | -40 ... +85 °C |
| <ul style="list-style-type: none"> note | Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C) |
| relative humidity | |
| <ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| design, dimensions and weights | |
| design | 19" rack |
| number of modular height units / relating to 19-inch cabinet | 1 |
| width | 483 mm |
| height | 44 mm |
| depth | 305 mm |
| net weight | 6.5 kg |
| fastening method | 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 | Yes |
| <ul style="list-style-type: none"> 35 mm top hat DIN rail mounting | No |
| <ul style="list-style-type: none"> wall mounting | No |
| <ul style="list-style-type: none"> S7-300 rail mounting | No |
| <ul style="list-style-type: none"> S7-1500 rail mounting | No |
| 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 | Yes |
| <ul style="list-style-type: none"> web-based management | Yes |
| <ul style="list-style-type: none"> MIB support | Yes |
| <ul style="list-style-type: none"> TRAPs via email | Yes |
| <ul style="list-style-type: none"> configuration with STEP 7 | Yes |
| <ul style="list-style-type: none"> RMON | Yes |
| <ul style="list-style-type: none"> port mirroring | Yes |
| <ul style="list-style-type: none"> multiport mirroring | Yes |
| <ul style="list-style-type: none"> CoS | Yes |
| <ul style="list-style-type: none"> PROFINET IO diagnosis | Yes |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> Telnet | Yes |
| <ul style="list-style-type: none"> HTTP | Yes |
| <ul style="list-style-type: none"> HTTPS | Yes |
| <ul style="list-style-type: none"> TFTP | Yes |
| <ul style="list-style-type: none"> FTP | Yes |
| <ul style="list-style-type: none"> BOOTP | Yes |
| <ul style="list-style-type: none"> GMRP | Yes |
| <ul style="list-style-type: none"> DCP | Yes |
| <ul style="list-style-type: none"> LLDP | Yes |
| <ul style="list-style-type: none"> SNMP v1 | Yes |

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| <ul style="list-style-type: none"> • SNMP v2 | Yes |
| <ul style="list-style-type: none"> • SNMP v3 | Yes |
| <ul style="list-style-type: none"> • IGMP (snooping/querier) | Yes |
| identification & maintenance function | |
| <ul style="list-style-type: none"> • I&M0 - device-specific information | Yes |
| <ul style="list-style-type: none"> • I&M1 – higher level designation/location designation | Yes |
| product functions / diagnostics | |
| product function | |
| <ul style="list-style-type: none"> • port diagnostics | Yes |
| <ul style="list-style-type: none"> • statistics Packet Size | Yes |
| <ul style="list-style-type: none"> • statistics packet type | Yes |
| <ul style="list-style-type: none"> • error statistics | Yes |
| <ul style="list-style-type: none"> • SysLog | Yes |
| product functions / VLAN | |
| product function | |
| <ul style="list-style-type: none"> • VLAN - port based | Yes |
| <ul style="list-style-type: none"> • VLAN - protocol-based | No |
| <ul style="list-style-type: none"> • VLAN - IP-based | No |
| <ul style="list-style-type: none"> • VLAN dynamic | Yes |
| number of VLANs / maximum | 255 |
| number of VLANs - dynamic / maximum | 255 |
| protocol / is supported / GVRP | Yes |
| product functions / DHCP | |
| product function | |
| <ul style="list-style-type: none"> • DHCP client | Yes |
| <ul style="list-style-type: none"> • DHCP Option 82 | Yes |
| <ul style="list-style-type: none"> • DHCP Option 66 | Yes |
| <ul style="list-style-type: none"> • DHCP Option 67 | Yes |
| product functions / redundancy | |
| product function | |
| <ul style="list-style-type: none"> • ring redundancy | Yes |
| <ul style="list-style-type: none"> • High Speed Redundancy Protocol (HRP) | Yes |
| <ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with redundancy manager | Yes |
| <ul style="list-style-type: none"> • 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 |

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| <ul style="list-style-type: none"> • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| protocol / is supported <ul style="list-style-type: none"> • SSH | <p>Yes</p> |
| product functions / time | |
| product function <ul style="list-style-type: none"> • SICLOCK support | <p>Yes</p> |
| protocol / is supported <ul style="list-style-type: none"> • NTP • SNTP • IEEE 1588 profile default | <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| standards, specifications, approvals | |
| standard <ul style="list-style-type: none"> • for FM • for safety / from CSA and UL • for emitted interference • for interference immunity | <p>FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4</p> <p>UL 60950-1, CSA C22.2 No. 60950-1-03</p> <p>EN 61000-6-4:2007 (Class A)</p> <p>EN 61000-6-2:2005</p> |
| MTBF | 15 y |
| standards, specifications, approvals / CE | |
| certificate of suitability / CE marking | Yes |
| standard <ul style="list-style-type: none"> • for EMC | IEC 61850, IEEE 1613 |
| standards, specifications, approvals / hazardous environments | |
| standard / for hazardous zone <ul style="list-style-type: none"> • from CSA and UL | <p>EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X</p> <p>ANSI / ISA 12.12.01, CSA C22.2 No. 142-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4</p> |
| certificate of suitability <ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard | Yes |
| standards, specifications, approvals / other | |
| certificate of suitability <ul style="list-style-type: none"> • C-Tick • KC approval • IEC 61850-3 | <p>EN 61000-6-2:2005, EN 61000-6-4:2007</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| standards, specifications, approvals / marine classification | |
| Marine classification association <ul style="list-style-type: none"> • Korean Register of Shipping (KRS) | Yes |
| further information / internet-Links | |
| Internet-Link <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support | <p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p> |
| security information | |
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