

SCALANCE XR524-8C; managed IE switch; layer 3 with Key-Plug available; Power supply 24 V DC; 24x 10/100/1000 Mbit/s RJ45; 8x 100/1000 Mbit/s SFP; contains 8 combo ports; in total 24 ports can be used; error signaling contact; select/set pushbutton; PROFINET IO device; redundancy functions; Office features (RSTP, VLAN, IGMP, ...); C-PLUG in scope of supply.



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|---|------------------------------------|
| product type designation | SCALANCE XR524-8C |
| 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 | 24; RJ45 |
| number of 100 Mbit/s ST(BFOC) ports | |
| • for multimode | 0 |
| number of electrical connections | |
| • for SFP | 8 |
| number of combo ports / with RJ45 interface for optical plug-in transceiver | 8 |
| interfaces / for communication / plug-in | |
| number of electrical connections | |
| • for SFP | 8 |
| interfaces / other | |
| number of electrical connections | |
| • for operator console | 1 |
| • for management purposes | 1 |
| • for signaling contact | 1 |
| • for power supply | 1 |
| type of electrical connection | |
| • for operator console | RJ11 |
| • for management purposes | RJ45 |
| • for signaling contact | 2-pole terminal block |
| • for power supply | 4-pole terminal block |
| design of the removable storage | |
| • C-PLUG/KEY-PLUG | Yes |
| product feature / hot-swappable interface modules | 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 | |
| product component / connection for redundant voltage supply | Yes |
| type of voltage supply / redundant power supply unit | No |
| type of voltage / 1 / of the supply voltage | DC |

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| <ul style="list-style-type: none"> • supply voltage / 1 / rated value • power loss [W] / 1 / rated value • supply voltage / 1 / rated value • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input • fuse protection type / 1 / at input for supply voltage | 24 V 24 W 19.2 ... 28.8 V 1 A 4-pole terminal block Yes 3.15 A / 125 V |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -40 ... +70 °C -40 ... +85 °C -40 ... +85 °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 | 449 mm |
| height | 44 mm |
| depth | 305 mm |
| net weight | 3.8 kg |
| fastening method | |
| <ul style="list-style-type: none"> • 19-inch installation • 35 mm top hat DIN rail mounting • wall mounting • S7-300 rail mounting • S7-1500 rail mounting | Yes No No No No |
| type of cable outlet | Cable outlet at front |
| product features, product functions, product components / general | |
| 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 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 9216 byte |
| protocol / is supported | |
| <ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • GMRP • DCP • LLDP • SNMP v1 • SNMP v2 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes |

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| <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

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| 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

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| product function | |
| <ul style="list-style-type: none"> • VLAN - port based | Yes |
| <ul style="list-style-type: none"> • VLAN - protocol-based | Yes |
| <ul style="list-style-type: none"> • VLAN - IP-based | Yes |
| <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

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| 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 / routing

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| service / routing / note | IP routing in combination with KEY-PLUG XR-500 |
| product function | |
| <ul style="list-style-type: none"> • static IP routing | Yes |
| <ul style="list-style-type: none"> • static IP routing IPv6 | Yes |
| <ul style="list-style-type: none"> • dynamic IP routing | Yes |
| <ul style="list-style-type: none"> • dynamic IP routing IPv6 | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • RIPv2 | Yes |
| <ul style="list-style-type: none"> • RIPnG for IPv6 | Yes |
| <ul style="list-style-type: none"> • OSPFv2 | Yes |
| <ul style="list-style-type: none"> • OSPFv3 for IPv6 | Yes |
| <ul style="list-style-type: none"> • VRRP | Yes |
| <ul style="list-style-type: none"> • VRRP for IPv6 | Yes |

product functions / redundancy

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| 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"> • Media Redundancy Protocol Interconnection (MRP-I) | 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 RSTP+ | Yes |
| <ul style="list-style-type: none"> • redundancy procedure MSTP | Yes |
| <ul style="list-style-type: none"> • passive listening | Yes |

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| protocol / is supported | |
| <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 |
| standards, specifications, approvals | |
| standard | |
| <ul style="list-style-type: none"> • for safety / from CSA and UL | in preparation |
| <ul style="list-style-type: none"> • for emitted interference | EN 61000-6-4 (Class A) |
| <ul style="list-style-type: none"> • for interference immunity | EN 61000-6-2 |
| reference code | |
| <ul style="list-style-type: none"> • according to IEC 81346-2 | KF |
| <ul style="list-style-type: none"> • according to IEC 81346-2:2019 | KFE |
| standards, specifications, approvals / CE | |
| certificate of suitability / CE marking | Yes |
| standards, specifications, approvals / hazardous environments | |
| 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 | EN 61000-6-2, EN 61000-6-4 |
| <ul style="list-style-type: none"> • C-Tick | Yes |
| <ul style="list-style-type: none"> • KC approval | Yes |
| <ul style="list-style-type: none"> • E1 approval | No |
| <ul style="list-style-type: none"> • E1 approval | No |
| standards, specifications, approvals / marine classification | |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| <ul style="list-style-type: none"> • French marine classification society (BV) | Yes |
| <ul style="list-style-type: none"> • Det Norske Veritas (DNV) | No |
| <ul style="list-style-type: none"> • Germanische Lloyd (GL) | No |
| <ul style="list-style-type: none"> • DNV GL | Yes |
| <ul style="list-style-type: none"> • Korean Register of Shipping (KRS) | Yes |
| <ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) | Yes |
| <ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) | Yes |
| <ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) | Yes |
| <ul style="list-style-type: none"> • Royal Institution of Naval Architects (RINA) | Yes |
| further information / internet-Links | |
| Internet-Link | |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> • to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx-Download-Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
| security information | Siemens provides products and solutions with industrial security |

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