

SCALANCE XRH334; managed layer 2; IE switch, 19" rack; 24x 100/1000 Mbps RJ45 port; 2x 1G/2.5G/5G/10 Gbps RJ45 8x 1G/10G SFP+ port; LED diagnostics; error signaling contact; select/set button; PROFINET IO device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); CLP included in scope of supply; conformal coating; power supply 24 V DC;



| product type designation   |  |
|--|--|
| product brand name   | SCALANCE   |
| transfer rate  |  |
| transfer rate  | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, 5 Gbit/s, 10 Gbit/s                                |
| interfaces / for communication / integrated  |  |
| number of electrical connections<br>• for network components or terminal equipment   | 26; RJ45   |
| number of 10/100/1000 Mbit/s RJ45 ports<br>• with securing collar  | 26   |
| number of 1000/2500/5000/10000 Mbps RJ45 ports / with securing collar  | 2  |
| number of electrical connections<br>• for SFP+   | 8; 1000 Mbps and 10000 Mbps SFP usable   |
| interfaces / other   |  |
| number of electrical connections<br>• for operator console<br>• for signaling contact<br>• for power supply  | 1<br>1<br>1  |
| type of electrical connection<br>• for operator console<br>• for signaling contact<br>• for power supply   | USB (2.0 Port, Type B, serial via USB)<br>2-pole terminal block<br>2 x 2-pin terminal block        |
| design of the removable storage<br>• CLP   | Yes  |
| operating voltage / of the signaling contacts<br>• at AC / rated value<br>• at DC / rated value  | 24 V<br>24 V   |
| operational current / of the signaling contacts<br>• 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   |
| <b>type of voltage / 1 / of the supply voltage</b><br>• supply voltage / 1 / rated value<br>• power loss [W] / 1 / rated value<br>• supply voltage / 1 / rated value<br>• consumed current / 1 / maximum<br>• type of electrical connection / 1 / for power supply<br>• product component / 1 / fusing at power supply input<br>• fuse protection type / 1 / at input for supply voltage | DC<br>24 V<br>72 W<br>19.2 ... 31.2 V<br>3 A<br>2 x 2-pole terminal block<br>Yes<br>F 10 A / 250 V |

|  |   |
|--|---|
| <b>type of voltage / 2 / of the supply voltage</b>                       | AC (50 / 60Hz)  |
| • supply voltage / 2 / rated value                                       | 24 V  |
| • power loss [W] / 2 / rated value                                       | 72 W  |
| • supply voltage / 2 / rated value                                       | 19.2 ... 30 V   |
| • consumed current / 2 / maximum   | 3 A   |
| • type of electrical connection / 2 / for power supply                   | 2 x 2-pole terminal block   |
| • fuse protection type / 2 / at input for supply voltage                 | F 10 A / 250 V  |
| <b>ambient conditions</b>  |   |
| ambient temperature / in horizontal mounting position / during operation | -40 ... +60 °C; Starting at -40 °C; The maximum ambient temperature during operation depends on the operating height and the plug-in transceivers, see also manual. |
| installation altitude / at height above sea level / maximum              | 4000 m  |
| relative humidity  |   |
| • at 25 °C / without condensation / during operation / maximum           | 95 %  |
| operating condition / fanless operation                                  | Yes   |
| protection class IP  | IP20  |
| <b>design, dimensions and weights</b>                                    |   |
| design   | 19-inch rack  |
| number of modular height units / relating to 19-inch cabinet             | 1   |
| width  | 446 mm  |
| height   | 43.6 mm   |
| depth  | 374.8 mm  |
| net weight   | 8 kg  |
| product feature / conformal coating                                      | Yes   |
| material / of the enclosure  | metal   |
| fastening method   |   |
| • 19-inch installation   | Yes   |
| <b>product features, product functions, product components / general</b> |   |
| cascading in cases of star topology                                      | any (depending only on signal propagation time)   |
| number of automatically learnable MAC addresses                          | 16382   |
| number of QoS queues / per port  | 8   |
| product function   |   |
| • QoS according to IEEE 802.1Q   | Yes   |
| product feature  |   |
| • Store & Forward switching method                                       | Yes   |
| <b>product functions / management, configuration, engineering</b>        |   |
| product function   |   |
| • CLI  | Yes   |
| • web-based management   | Yes   |
| • MIB support  | Yes   |
| • TRAPs via email  | Yes   |
| • configuration with STEP 7  | Yes   |
| • RMON   | No  |
| • SMTP server  | No  |
| • port mirroring   | Yes   |
| • multipoint mirroring   | Yes   |
| • Encapsulated Remote Traffic Mirroring (ERTM)                           | Yes   |
| • CoS  | Yes   |
| • PROFINET IO diagnosis  | Yes   |
| • switch-managed   | Yes   |
| PROFINET conformity class  | B   |
| network load class / according to PROFINET                               | 2   |
| telegram length / for Ethernet / maximum                                 | 9194 byte   |
| protocol / is supported  |   |
| • Telnet   | No  |
| • HTTP   | Yes   |
| • HTTPS  | Yes   |
| • TFTP   | Yes   |
| • FTP  | Yes   |
| • SFTP   | Yes   |

|   |     |
|---|-----|
| • BOOTP   | Yes |
| • NETCONF   | Yes |
| • GMRP  | Yes |
| • DCP   | Yes |
| • LLDP  | Yes |
| • EtherNet/IP   | Yes |
| • SNMP v1   | Yes |
| • 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 |
| <b>product functions / diagnostics</b>  |     |
| product function  |     |
| • port diagnostics  | Yes |
| • statistics Packet Size  | Yes |
| • statistics packet type  | Yes |
| • error statistics  | Yes |
| • SysLog  | Yes |
| <b>product functions / VLAN</b>   |     |
| product function  |     |
| • VLAN - port based   | Yes |
| • VLAN - protocol-based   | No  |
| • VLAN - IP-based   | No  |
| • VLAN dynamic  | Yes |
| number of VLANs / maximum   | 512 |
| number of VLANs - dynamic / maximum   | 512 |
| <b>product functions / DHCP</b>   |     |
| product function  |     |
| • DHCP server   | No  |
| • DHCP client   | Yes |
| • DHCP Option 82  | No  |
| • DHCP Option 66  | Yes |
| • DHCP Option 67  | Yes |
| <b>product functions / redundancy</b>   |     |
| protocol / is supported / Media Redundancy Protocol (MRP)                       | Yes |
| product function  |     |
| • media redundancy protocol (MRP) with redundancy manager                       | Yes |
| • Media Redundancy Protocol Interconnection (MRP-I)                             | No  |
| • ring redundancy   | Yes |
| • high speed redundancy protocol (HRP) with redundancy manager                  | No  |
| • high speed redundancy protocol (HRP) with standby redundancy                  | No  |
| • redundancy procedure STP  | Yes |
| • redundancy procedure RSTP   | Yes |
| • redundancy procedure RSTP+  | Yes |
| • redundancy procedure MSTP   | Yes |
| • passive listening   | No  |
| • eRSTP   | Yes |
| protocol / is supported   |     |
| • LACP  | No  |
| <b>system modification during operation</b>                                     |     |
| product function / configuration in RUN via CiR/H-CiR                           | No  |
| <b>product functions / security</b>   |     |
| product conformity / according to IEEE 802.1x-port based Network Access Control | No  |
| protocol / is supported   |     |
| • RADIUS  | Yes |
| • SSH   | Yes |

|   |   |
|---|---|
| • SSL   | Yes   |
| <b>product functions / time</b>   |   |
| product function  |   |
| • SICLOCK support   | Yes   |
| • NTP-client  | Yes   |
| • IEEE 1588 v2 transparent forwarding   | Yes   |
| protocol / is supported   |   |
| • NTP   | Yes   |
| • SNTP  | Yes   |
| • IEEE 1588 profile default   | Yes   |
| accuracy / at IEEE 1588 v2  |   |
| • not less than   | 100 µs  |
| • typical   | 50 ns   |
| <b>standards, specifications, approvals</b>                                     |   |
| certificate of suitability  |   |
| • CE marking  | Yes   |
| • UKCA marking  | Yes   |
| • cULus approval  | Yes   |
| • KC approval   | Yes   |
| • Regulatory Compliance Mark (RCM)  | Yes   |
| product conformity / according to EMC-guideline                                 | 2014/30/EU  |
| standard  |   |
| • for EMC interference emission   | EN 61000-6-4  |
| • for immunity to EMC   | EN 61000-6-2  |
| <b>standards, specifications, approvals / hazardous environments</b>            |   |
| certificate of suitability  |   |
| • ATEX  | Yes   |
| • UKEX  | Yes   |
| • IECEX   | Yes   |
| • ULhazloc approval   | Yes   |
| • CCC / for hazardous zone according to GB standard                             | Yes   |
| • FM registration   | Yes   |
| <b>standards, specifications, approvals / other</b>                             |   |
| resistance to air pollution / conformity according to ANSI/ISA-71.04            | Yes; G3   |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes   |
| <b>standards, specifications, approvals / Environmental Product Declaration</b> |   |
| Environmental Product Declaration   | Yes   |
| global warming potential [CO2 eq]   |   |
| • total   | 991.85 kg   |
| • during manufacturing  | 225.96 kg   |
| • during operation  | 765.04 kg   |
| • after end of life   | 0.85 kg   |
| <b>product functions / general</b>  |   |
| MTBF  | 13.2 a  |
| reference temperature / for MTBF determination                                  | 40 °C   |
| reference code  |   |
| • according to IEC 81346-2  | KF  |
| • according to IEC 81346-2:2019   | KFE   |
| Warranty period   | 5 a   |
| product function / is supported / identification link                           | Yes; acc. to IEC 61406-1:2022   |
| <b>further information / internet links</b>                                     |   |
| internet link   |   |
| • to website: Selection guide for cables and connectors                         | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> |
| • to web page: selection aid TIA Selection Tool                                 | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>   |
| • to website: Industrial communication  | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>   |
| • to web page: SiePortal  | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>   |
| • to website: Image database  | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>                                       |
| • to website: CAx-Download-Manager  | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>   |
| • to website: Industry Online Support   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>   |

security information

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General Product Approval



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