



SCALANCE XP216PoE EEC, managed IE switch, with railway approval IEC 62443-4-2 certified; (EN 50155, EN45545); 12x 10/100 Mbit/s M12 ports, 4x 10/100/1000 Mbit/s M12 ports IP65, LED diagnostics, error signaling contact, redundant power supply, PROFINET IO device, network management, can be operated in redundant ring, incl. dust caps, including electronic manual on CD-ROM, C-PLUG optional.

| | |
|---|------------------------------------|
| product type designation | SCALANCE XP216PoE EEC |
| transfer rate | |
| transfer rate | 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s |
| interfaces / for communication / maximum configuration for modular devices | |
| number of electrical ports / maximum | 16 |
| number of electrical ports / with PoE / maximum | 8 |
| interfaces / for communication / integrated | |
| number of electrical connections | 16 |
| • for network components or terminal equipment | 16 |
| number of 10/100 Mbit/s M12-ports (D-coded) / integrated | 6 |
| • with PoE | 6 |
| number of 10/100/1000 Mbit/s M12-ports (X-coded) / integrated | 2 |
| • with PoE | 2 |
| interfaces / other | |
| number of electrical connections | |
| • for operator console | 1 |
| • for signaling contact | 1 |
| • for power supply | 1 |
| type of electrical connection | |
| • for operator console | 5 pin M12 socket (A coded) |
| • for signaling contact | 5-pin M12 connector (B-coded) |
| • for power supply | 4-pin M12 plug (A-coded) |
| design of the removable storage | |
| • C-PLUG | Yes |
| signal inputs/outputs | |
| operating voltage / of the signaling contacts | |
| • at DC / rated value | 54 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 |
| supplied active power / of PSE / with PoE | |
| • per port / maximum | 30 W |
| • total / maximum | 120 W |
| type of voltage / 1 / of the supply voltage | DC |
| • supply voltage / 1 / rated value | 54 V |
| • power loss [W] / 1 / rated value | 13 W |
| • consumed current / 1 / at rated supply voltage / maximum | 2.5 A |
| • supply voltage / 1 / rated value | 46 ... 57 V |
| • consumed current / 1 / maximum | 2.5 A |

| | |
|---|--|
| <ul style="list-style-type: none"> • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input | 4-pin M12 plug (A-coded) Yes |
| ambient conditions | |
| ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • note | -40 ... +70 °C -40 ... +70 °C -40 ... +70 °C EEC variants with EN 50155 support for 10 minutes: -40 °C ... +85 °C |
| relative humidity <ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP65 |
| design, dimensions and weights | |
| design | compact |
| width | 280 mm |
| height | 200 mm |
| depth | 49 mm |
| net weight | 2.5 kg |
| product feature / conformal coating | Yes |
| material / of the enclosure | Aluminum |
| fastening method <ul style="list-style-type: none"> • wall mounting | ET200pro module carrier Yes |
| product features, product functions, product components / general | |
| cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{s}$ | 50 |
| 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 • with IRT / PROFINET IO switch • PROFINET IO diagnosis | Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes |
| PROFINET conformity class | B |
| product function / switch-managed | Yes |
| telegram length / for Ethernet / maximum | 1518 byte |
| protocol / is supported <ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • FTP • BOOTP • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) | Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes |
| identification & maintenance function <ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 - higher level designation/location designation | Yes 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 |
| <ul style="list-style-type: none"> • loopback diagnostics | 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 | No |
| number of VLANs / maximum | 257 |
| number of VLANs - dynamic / maximum | 257 |
| number of VLANs / at ring redundancy (HRP; MRP; standby link) | 257 |
| product functions / DHCP | |
| product function | |
| <ul style="list-style-type: none"> • DHCP server | Yes |
| <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"> • of the PROFINET IO device / is supported / PROFINET system redundancy | Yes |
| <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"> • of the PROFINET IO device / is supported / H-Sync forwarding | 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 |
| product functions / security | |
| product function | |
| <ul style="list-style-type: none"> • RADIUS client | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • SSH | Yes |
| <ul style="list-style-type: none"> • SSL | Yes |
| product functions / time | |
| product function | |
| <ul style="list-style-type: none"> • SICLOCK support | Yes |
| <ul style="list-style-type: none"> • NTP-client | Yes |
| <ul style="list-style-type: none"> • SNTP client | Yes |
| protocol / is supported | |
| <ul style="list-style-type: none"> • NTP | Yes |
| <ul style="list-style-type: none"> • SNTP | Yes |
| system modification during operation | |
| product function / configuration in RUN via CiR/H-CiR | Yes |
| standards, specifications, approvals | |
| standard | |

| | | |
|--|--|--------------------------------|
| <ul style="list-style-type: none"> • for FM • for emitted interference • for interference immunity | FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0205X EN 61000-6-4 (Class A) EN 61000-6-2 | |
| IT security for industrial automation systems / according to IEC 62443-4-2:2019 | Yes | |
| reference code | | |
| <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 | KF KFE | |
| standards, specifications, approvals / CE | | |
| certificate of suitability / CE marking | Yes | |
| certificate of suitability / RoHS conformity | Yes | |
| standards, specifications, approvals / hazardous environments | | |
| standard / 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"> • from CSA and UL | ANSI / ISA 12.12.01, CSA C22.2 No. 213-M1987, CL. 1 / Div. 2 / GP. A, B, C, D T4, CL. 1 / Zone 2 / GP. IIC, T4 | |
| certificate of suitability | | |
| <ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking | Yes Ex nA IIC T4 Gc | |
| standards, specifications, approvals / other | | |
| certificate of suitability | | |
| <ul style="list-style-type: none"> • C-Tick • KC approval • E1 approval • E1 approval • railway application in accordance with EN 50155 • railway application in accordance with EN 50124-1 • fire protection in accordance with EN 45545-2 | Yes Yes Yes Yes Yes Yes Yes | |
| accessories | | |
| product extension / optional / C-PLUG | 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 | http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com | |
| security information | | |
| security information | <p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)</p> | |
| Approvals / Certificates | | |
| General Product Approval | EMC | For use in hazardous locations |

[Manufacturer Declaration](#)



[ATEX-Zone 2-Declaration](#)



[FM](#)

| | | |
|--------------------------------|---------------------------|-------------------|
| For use in hazardous locations | Declaration of Conformity | Test Certificates |
|--------------------------------|---------------------------|-------------------|

[CCC-Ex](#)



[Manufacturer Declaration](#)



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

| | | | |
|-------------------|-------|---------|-------------|
| Test Certificates | other | Railway | Environment |
|-------------------|-------|---------|-------------|

[inspection certificate](#)

[PROFINET-Certification](#)

[Confirmation](#)



last modified:

9/22/2023