



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	
product brand name	SCALANCE
product type designation	XP216PoE EEC
Technical Product Detail Page	https://i.siemens.com/1P6GK5216-0UA00-5ES6
transfer rate	
transfer rate	10, 100, 1000 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	16; M12
number of 10/100 Mbit/s M12-ports (D-coded)	6
• with PoE	6
number of 10/100/1000 Mbit/s M12-ports (X-coded)	2
• with PoE	2
interfaces / other	
number of electrical connections	
• for operator console	1
• for signaling contact	1
• for power supply	2
type of electrical connection	
• for operator console	5-pole M12 socket (A-coded)
• for signaling contact	5-pole M12 plug (B-coded)
• for power supply	4-pole M12 plug (A-coded)
design of the removable storage	
• C-PLUG	Yes
product function / device replacement with replacement of the storage medium	Yes
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	
• supply voltage / 1 / rated value	54 V; XP-200EEC with EN 50155 supports the voltage range 46 ... 57 V DC
• power loss [W] / 1 / rated value	13 W
• consumed current / 1 / at rated supply voltage / maximum	2.5 A

<ul style="list-style-type: none"> • supply voltage / 1 / voltage range • consumed current / 1 / maximum • type of electrical connection / 1 / for power supply • product component / 1 / fusing at power supply input 	46 ... 57 2.5 A 4-pole 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	ET200pro module carrier
<ul style="list-style-type: none"> • wall mounting 	Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <~0.3~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function	
<ul style="list-style-type: none"> • QoS according to DSCP 	Yes
product feature	
<ul style="list-style-type: none"> • Cut Through switching method • Store & Forward switching method 	No Yes
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 • SMTP server • port mirroring • multiport mirroring • CoS • with IRT / PROFINET IO switch • PROFINET IO diagnosis • switch-managed 	Yes Yes Yes Yes Yes Yes No Yes Yes Yes No Yes Yes
PROFINET conformity class	B
network load class / according to PROFINET	II
telegram length / for Ethernet / maximum	1518 byte
protocol / is supported	
<ul style="list-style-type: none"> • Telnet • HTTP • HTTPS • TFTP • SFTP • BOOTP • GMRP 	Yes Yes Yes Yes Yes No Yes

<ul style="list-style-type: none"> • DCP • LLDP • EtherNet/IP • SNMP v1 • SNMP v2 • SNMP v3 • IGMP (snooping/querier) 	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 • statistics Packet Size • statistics packet type • error statistics • SysLog 	Yes Yes Yes Yes Yes
product functions / VLAN	
product function <ul style="list-style-type: none"> • VLAN - port based • VLAN - protocol-based • VLAN - IP-based 	Yes No 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 • DHCP client • DHCP Option 82 • DHCP Option 66 • DHCP Option 67 	Yes Yes Yes Yes Yes
product functions / redundancy	
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function <ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager • Media Redundancy Protocol Interconnection (MRP-I) • of the PROFINET IO device / is supported / H-Sync forwarding • of the PROFINET IO device / is supported / PROFINET system redundancy • ring redundancy • high speed redundancy protocol (HRP) with redundancy manager • high speed redundancy protocol (HRP) with standby redundancy • redundancy procedure STP • redundancy procedure RSTP • redundancy procedure RSTP+ • redundancy procedure MSTP • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes
system modification during operation	
product function / configuration in RUN via CiR/H-CiR	Yes
product functions / security	
product function <ul style="list-style-type: none"> • IEEE 802.1x (radius) • RADIUS client 	Yes 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
<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
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UKCA marking 	Yes
<ul style="list-style-type: none"> • cULus approval 	Yes
<ul style="list-style-type: none"> • KC approval 	Yes
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	Yes
standard	
<ul style="list-style-type: none"> • for EMC interference emission 	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> • for immunity to EMC 	EN 61000-6-2
<ul style="list-style-type: none"> • for safety / from CSA and UL 	UL 60950-1 E115352, CSA C22.2 No. 60950-1
standards, specifications, approvals / hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • ATEX 	Yes
<ul style="list-style-type: none"> • UKEX 	Yes
<ul style="list-style-type: none"> • IECEx 	Yes
<ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard 	Yes
<ul style="list-style-type: none"> • FM registration 	Yes
standards, specifications, approvals / other	
certificate of suitability	
<ul style="list-style-type: none"> • railway application in accordance with EN 50155 	Yes; OT4, ST1, H1, S2, C1, L4, PC2
<ul style="list-style-type: none"> • railway application in accordance with EN 50121-4 	Yes
<ul style="list-style-type: none"> • railway application in accordance with EN 50124-1 	Yes
<ul style="list-style-type: none"> • fire protection in accordance with EN 45545-2 	Yes; Class HL1 - HL3
<ul style="list-style-type: none"> • RoHS conformity 	Yes
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
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total 	417.94 kg
<ul style="list-style-type: none"> • during manufacturing 	61.47 kg
<ul style="list-style-type: none"> • during operation 	356.2 kg
<ul style="list-style-type: none"> • after end of life 	0.27 kg
product functions / general	
MTBF	29 a
reference temperature / for MTBF determination	40 °C
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net

- to web page: SiePortal
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://sieportal.siemens.com/>
<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations



[Declaration of Conformity](#)



[TUEV](#)



For use in hazardous locations

Test Certificates

Railway



[FM](#)

[CCC-Ex](#)

[Type Test Certificates/Test Report](#)

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