



SCALANCE XP216EEC, 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 XP216EEC
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
interfaces / for communication / integrated	
number of electrical connections	
• for network components or terminal equipment	16
number of 10/100 Mbit/s M12-ports (D-coded) / integrated	12
number of 10/100/1000 Mbit/s M12-ports (X-coded) / integrated	4
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	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 / 1 / of the supply voltage	DC
• supply voltage / 1 / rated value	24 V; XP-200EEC with EN 50155 supports the voltage range 16.8 ... 30 V DC
• power loss [W] / 1 / rated value	8 W
• consumed current / 1 / at rated supply voltage / maximum	0.4 A
• supply voltage / 1 / rated value	19.2 ... 28.8 V
• consumed current / 1 / maximum	0.335 A
• type of electrical connection / 1 / for power supply	4-pin M12 plug (A-coded)
• product component / 1 / fusing at power supply input	Yes
ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C

<ul style="list-style-type: none"> during transport note 	-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 statistics Packet Size statistics packet type error statistics SysLog loopback diagnostics 	Yes Yes Yes Yes Yes Yes

product functions / VLAN

product function	
• VLAN - port based	Yes
• VLAN - protocol-based	No
• VLAN - IP-based	No
• 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	
• DHCP server	Yes
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes

product functions / redundancy

product function	
• of the PROFINET IO device / is supported / PROFINET system redundancy	Yes
• ring redundancy	Yes
• High Speed Redundancy Protocol (HRP)	Yes
• high speed redundancy protocol (HRP) with redundancy manager	Yes
• high speed redundancy protocol (HRP) with standby redundancy	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• Media Redundancy Protocol Interconnection (MRP-I)	Yes
• of the PROFINET IO device / is supported / H-Sync forwarding	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
• redundancy procedure MSTP	Yes
• passive listening	Yes

product functions / security

product function	
• RADIUS client	Yes
protocol / is supported	
• SSH	Yes
• SSL	Yes

product functions / time

product function	
• SICLOCK support	Yes
• NTP-client	Yes
• SNTP client	Yes
protocol / is supported	
• NTP	Yes
• SNTP	Yes

system modification during operation

product function / configuration in RUN via CiR/H-CiR	Yes
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standards, specifications, approvals

standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM16US0205X
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	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	Yes	
<ul style="list-style-type: none"> • CCC / for hazardous zone according to GB standard • CCC / for hazardous zone according to GB standard / as marking 	Ex nA IIC T4 Gc	
standards, specifications, approvals / other		
certificate of suitability	Yes	
<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	
standards, specifications, approvals / marine classification		
Marine classification association	Yes	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Polski Rejestr Statkow (PRS) 	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	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)	
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**

[CCC-Ex](#)



[Manufacturer Declaration](#)

[Miscellaneous](#)

Test Certificates | **Marine / Shipping**

[Type Test Certificates/Test Report](#)

[inspection certificate](#)



[NK / Nippon Kaiji Kyokai](#)

Marine / Shipping | **other** | **Railway**



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[Confirmation](#)

Environment



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9/22/2023