

SCALANCE XP216PoE EEC, managed IE switch, with railway approval (EN 50155, EN 45545); 12x 10/100 Mbps M12 ports, 4x 10/100/1000 Mbps M12 ports IP65, LED diagnostics, error signaling contact, Redundant power supply, PROFINET IO device, network management, operable in redundant ring, incl. dust caps, incl. 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 / Integrated		
Number of electrical connections		
• 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
• for redundant voltage supply		1

Type of electrical connection	• for operator console • for signaling contact • for power supply	5 pin M12 socket (A coded) 5-pin M12 connector (B-coded) 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
Operating current / of the signaling contacts	• at DC / maximum	0.1 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
• external • external / minimum • external / maximum	54 V 46 V 57 V
Supply voltage / 1 / Rated value	
• Consumed current / 1 / at rated supply voltage / maximum • Power loss [W] / 1 / Rated value	2.5 A 13 W
Supply voltage / 2 / Rated value	with PoE consumers Type 1
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	5 A / 60 V
Consumed current / maximum	2.5 A
Power loss [W]	
• maximum	13 W
Supplied active power / of PSE / with PoE	
• per port / maximum • total / maximum	30 W 120 W

Ambient conditions

Ambient temperature	
• 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	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP65
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
Mounting type	ET200pro module carrier
• 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 functions / management, configuration, engineering

Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• RMON	Yes
• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• with IRT / PROFINET IO switch	No
• PROFINET IO diagnosis	Yes
PROFINET conformity class	B
Product function / switch-managed	Yes
Telegram length / for Ethernet / maximum	1518 byte
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	No
• 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

Product functions / Diagnostics

Product function	
• Port diagnostics	Yes
• Statistics Packet Size	Yes
• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes
• loopback diagnostics	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	4094

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 (S2)	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
- redundancy procedure RSTP
- redundancy procedure MSTP
- Passive listening

Yes
Yes
Yes
Yes

Product functions / Security

Product function

- RADIUS client

Yes

Protocol / is supported

- SSH
- SSL

Yes
Yes

Product functions / time

Product function

- SICLOCK support
- NTP-client
- SNTP client

Yes
Yes
Yes

Protocol / is supported

- NTP
- SNTP

Yes
Yes

Standards, specifications, approvals

Standard

- for FM
- for hazardous zone
- for safety / from CSA and UL
- for hazardous zone / from CSA and UL
- for emitted interference
- for interference immunity

FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
UL 60950-1, CSA C22.2 No. 60950-1
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
EN 61000-6-4 (Class A)
EN 61000-6-2

Standards, specifications, approvals / CE

Certificate of suitability / CE marking

Yes

Certificate of suitability / RoHS conformity

Yes

Standards, specifications, approvals / other

Certificate of suitability

- C-Tick
- E1 approval
- E1 approval
- Railway application in accordance with EN 50155

Yes
Yes
Yes
Yes

- Railway application in accordance with EN 50124-1
- Fire protection in accordance with EN 45545-2
- KC approval

Yes
Yes
Yes

accessories

Product extension / optional / C-PLUG

Yes

Further information / Internet-Links

Internet-Link

- to website: Selector SIMATIC NET 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/snst>
<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

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