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

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• Note	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, dimensions and weight

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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 properties, functions, 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

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 / Diagnosis

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	

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• media redundancy protocol (MRP) with redundancy manager	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

Standards, specifications, approvals

Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous zone / 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
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2

Standards, specifications, approvals / CE

Certificate of suitability / CE marking	Yes
Certificate of suitability / RoHS conformity	Yes

Standards, specifications, approvals / miscellaneous

Certificate of suitability	
• C-Tick	Yes
• E1 approval	Yes
• E1 approval	Yes
• Railway application in accordance with EN 50155	Yes

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

Accessories

Product extension / optional / C-PLUG	Yes

Further Information / Internet Links

Internet-Link

• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

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