

SCALANCE XP216POE EEC, MANAGED IE SWITCH WITH RAILWAY CERTIFICAT. (EN50155, EN45545); 12 X 10/100MBIT/S M12-PORTS, 4 X 10/100/1000MBIT/S M12-PORTS IP65/67, LED-DIAGNOSIS, FAULT SIGNAL CONTACT, REDUNDAND POWER SUPPLY, PROFINET IO DEVICE, NETWORK MANAGEMENT, OPERATION IN RED. RING, INCL. DUST COVERS, INCL. ELECTRON. MANUAL ON CD, C-PLUG OPTIONAL



Transmission rate

Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
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Interfaces / for communication / integrated

Number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment 	16
Number of 10/100 Mbit/s M12-ports (D-coded) / Integrated	10
<ul style="list-style-type: none"> with PoE 	2
Number of 10/100/1000 Mbit/s M12-ports (X-coded)	
<ul style="list-style-type: none"> Integrated 	2
<ul style="list-style-type: none"> integrated / with PoE 	2

Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> for operator console 	1
<ul style="list-style-type: none"> for signaling contact 	1
<ul style="list-style-type: none"> for power supply 	1
<ul style="list-style-type: none"> for redundant voltage supply 	1
Type of electrical connection	

<ul style="list-style-type: none"> • for operator console 	5 pin M12 socket (A coded)
design of the removable storage	
<ul style="list-style-type: none"> • C-PLUG 	Yes

Signal-Inputs/outputs

Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / Rated value 	54 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> • at DC / maximum 	0.1 A

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> • external 	54 V
<ul style="list-style-type: none"> • external / minimum 	46 V
<ul style="list-style-type: none"> • external / maximum 	57 V
Supply voltage / 1 / Rated value	
<ul style="list-style-type: none"> • Consumed current / 1 / at rated supply voltage / maximum 	2.5 A
<ul style="list-style-type: none"> • Power loss [W] / 1 / Rated value 	13 W
Product component / fusing at power supply input	Yes
Consumed current / maximum	2.5 A
Power loss [W]	
<ul style="list-style-type: none"> • maximum 	13 W
Supplied active power / of PSE / with PoE	
<ul style="list-style-type: none"> • per port / maximum 	120 W

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °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 weight

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
<ul style="list-style-type: none"> • wall mounting 	Yes

Product properties, functions, components / general

Cascading in the case of a redundant ring / at reconfiguration time of $<\sim 0.3\sim s$	50
Cascading in cases of star topology	any (depending only on signal propagation time)

Product functions / management, configuration

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 • switch-managed 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p>
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) 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information • I&M1 – higher-level designation/location designation 	<p>Yes</p> <p>Yes</p>

Product functions / Diagnosis

Product function	
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• 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	
• 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
• 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

Standards, specifications, approvals / product conformity

MTBF / at 40 °C	35 y
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Accessories

Product extension / optional / C-PLUG	Yes
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Further Information / Internet Links

Internet-Link	
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- 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>

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