

Product description

Preset for Ethernet/IP mode!

SCALANCE XP216 (EIP), managed IE switch, 12x 10/100 Mbps M12 ports, 4x 10/100/1000 Mbps M12 ports IP65, LED diagnostics, error signaling contact, Redundant power supply, Ethernet/IP, Network management, incl. Dust caps, incl. electronic Manual on CD-ROM, C-plug optional



Product type designation	SCALANCE XP216
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	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
• for redundant voltage supply	1
Type of electrical connection	

<ul style="list-style-type: none"> • 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 <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 	24 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 • external / minimum • external / maximum 	24 V 19.2 V 28.8 V
Supply voltage / 1 / Rated value <ul style="list-style-type: none"> • Consumed current / 1 / at rated supply voltage / maximum • Power loss [W] / 1 / Rated value 	0.4 A 9.6 W
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	5 A / 60 V
Consumed current / maximum	0.335 A
Power loss [W] <ul style="list-style-type: none"> • at DC / at 24 V 	8 W

Ambient conditions

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

Design	compact
Width	280 mm
Height	200 mm
Depth	49 mm
Net weight	2.5 kg
Material / of the enclosure	Aluminum

Mounting type	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 $< \sim 0.3 \text{ s}$	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 	<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>
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) 	<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 / 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	Yes
• of the PROFINET IO device / is supported / H-Sync forwarding	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Passive listening	Yes

Product functions / Security

Product function	
<ul style="list-style-type: none"> • RADIUS client 	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

System modification during operation

Product function / configuration in RUN via CiR/H-CiR	Yes
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Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for FM 	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4
<ul style="list-style-type: none"> • 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"> • for safety / from CSA and UL 	UL 60950-1, CSA C22.2 No. 60950-1
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • for emitted interference 	EN 61000-6-4 (Class A)
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2
Security for industrial automation and control systems / acc. to IEC 62443-4-2:2019	Yes

Standards, specifications, approvals / CE

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

Standards, specifications, approvals / other

Certificate of suitability	
<ul style="list-style-type: none"> • C-Tick 	Yes
<ul style="list-style-type: none"> • Railway application in accordance with EN 50155 	No
<ul style="list-style-type: none"> • Railway application in accordance with EN 50124-1 	No
<ul style="list-style-type: none"> • KC approval 	Yes

Standards, specifications, approvals / marine classification

Marine classification association

- | | |
|---|-----|
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Bureau Veritas (BV) | Yes |
| • DNV GL | Yes |
| • Korean Register of Shipping (KRS) | Yes |
| • Polski Rejestr Statkow (PRS) | 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

Security information

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