



SCALANCE XC216 manageable layer 2 IE Switch; 16X 10/100 Mbit/s RJ45-Ports; 1x console port, Diagnostic LED; Redundant power supply; Temp. range -40°C to +70 °C Mounting: Standard Mounting Rail/S7 Profile Rail/Wall Office redundancy functions features (RSTP, VLAN ,...); PROFINET IO Device; Ethernet/IP compliance C-PLUG shaft;

Product type designation	SCALANCE
Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces / for communication / integrated	
Number of electrical connections	
• for network components or terminal equipment	16; RJ45
Number of 10/100 Mbit/s RJ45 ports / Integrated	
• with securing collar	16
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	RJ11
• for signaling contact	2-pole terminal block
• for power supply	4-pole terminal block

design of the removable storage	
• C-PLUG	Yes
Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
• at DC / Rated value	24 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	24 V
• external / minimum	9.6 V
• external / maximum	31.2 V
Supply voltage / 4 / Rated value	
• Consumed current / 4 / at rated supply voltage / maximum	0.275 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	2.5 A / 125 V
Consumed current / maximum	0.55 A
Power loss [W]	
• at DC / at 24 V	6.6 W
Permitted ambient conditions	
Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	compact
Width	120 mm
Height	147 mm
Depth	125 mm
Net weight	0.8 kg
Material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-300 rail mounting	Yes

- S7-1500 rail mounting

Yes

Product properties, functions, 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 function / QoS according to DSCP	Yes
Product feature	
• Cut Through switching method	No
• Store & Forward switching method	Yes

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
• SMTP server	No
• Port mirroring	Yes
• multiport mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Telegram length / for Ethernet / maximum	1632 byte
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• BOOTP	No
• GMRP	Yes
• 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
- Statistics Packet Size
- Statistics packet type
- Error statistics
- SysLog

Yes

Yes

Yes

Yes

Yes

Product functions / VLAN

Product function

- VLAN - port based
- VLAN - protocol-based
- VLAN - IP-based
- VLAN dynamic

Yes

No

No

Yes

Number of VLANs / maximum

257

Number of VLANs - dynamic / maximum

257

Protocol / is supported / GVRP

Yes

Product functions / DHCP

Product function

- DHCP server
- DHCP client
- DHCP Option 82
- DHCP Option 66
- DHCP Option 67

Yes

Yes

Yes

Yes

Yes

Product functions / Redundancy

Product function

- Ring redundancy
- High Speed Redundancy Protocol (HRP)
- high speed redundancy protocol (HRP) with redundancy manager
- high speed redundancy protocol (HRP) with standby redundancy

Yes

Yes

Yes

Yes

Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

Product function

- media redundancy protocol (MRP) with redundancy manager
- redundancy procedure STP
- redundancy procedure RSTP
- redundancy procedure MSTP

Yes

Yes

Yes

Yes

• Passive listening	Yes
Protocol / is supported	
• LACP	Yes

Product functions / Security

Product function	
• IEEE 802.1x (radius)	Yes
• Broadcast/Multicast/Unicast Limiter	Yes
• broadcast blocking	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 / CE

Certificate of suitability / CE marking	Yes
Product conformity / according to EMC-guideline	2014/30/EU
Standard	
• for EMC interference emission	EN 61000-6-4, EN 50121-4
• for immunity to EMI	EN 61000-6-2, EN 50121-4
Certificate of suitability / RoHS conformity	Yes; 2011/65/EU

Standards, specifications, approvals / hazardous environments

Certificate of suitability	
• ATEX	Yes
• IECEX	Yes
• FM registration	Yes

Standards, specifications, approvals / miscellaneous

Certificate of suitability	
• Railway application in accordance with EN 50121-4	Yes
• Regulatory Compliance Mark (RCM)	Yes
• EAC approval	Yes

Standards, specifications, approvals / ship classification

Marine classification association	
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- American Bureau of Shipping Europe Ltd. (ABS)
- DNV GL
- Polski Rejestr Statkow (PRS)

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

Security information

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