SIEMENS

Product type designation	SCALANCE XB216
Product description	Preset for PROFINET mode! SCALANCE XB216 MANAGEABLE LAYER 2 IE-SWITCH 16X 10/100 MBITS/S RJ45 PORTS 1X KONSOLEN-PORT DIAGNOSTICS-LED REDUNDANT POWER SUPPLY TEMP.-RANGE 0 DGR C UP TO DIN RAIL MOUNTING PROFINET IO-DEVICE ETHERNET/IP-CERTIFICATE DEFAULT PROFINET

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s

Interfaces	
Number of electrical/optical connections	
• for network components or terminal equipment / maximum	16
Type of electrical connection	
• for network components or terminal equipment	RJ45 port

Interfaces / for communication / integrated	
Number of electrical connections / for network components or terminal equipment	16
Number of 100 Mbit/s SC ports	
• for multimode	0
Number of 1000 Mbit/s LC ports	
• for multimode	0
• for single mode (LD)	0

Interfaces / others

Number of electrical connections	
● for operator console	1
● for management purposes	1
● for power supply	1
● for redundant voltage supply	1
Type of electrical connection	
● for operator console	RJ11 port
● for management purposes	RJ45 port
● for power supply	6-pole terminal block

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
● external	24 V
● external	19.2 ... 28.8 V
Product component / fusing at power supply input	Yes

Permitted ambient conditions

Ambient temperature	
● during operation	0 ... 60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
Relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP24

Design, dimensions and weight

Design	compact
Width	80 mm
Height	121 mm
Depth	113 mm
Material / of the enclosure	Plastic
Mounting type	
● 35 mm DIN rail mounting	Yes
● wall mounting	No
● S7-300 rail mounting	No
● S7-1500 rail mounting	No

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	No
● CoS	Yes
● with IRT / PROFINET IO switch	No
● PROFINET IO diagnosis	Yes
● switch-managed	Yes
Telegram length / for Ethernet / maximum	1522 byte
Protocol / is supported	
● Telnet	Yes
● HTTP	Yes
● HTTPS	Yes
● TFTP	Yes
● FTP	Yes
● BOOTP	No
● DCP	Yes
● LLDP	Yes
● EtherNet/IP	Yes
● IGMP (snooping/querier)	Yes
Identification & maintenance function	
● I&M0 - device-specific information	Yes
● I&M1 – higher-level designation/location designation	Yes
Protocol / is supported	
● SNMP v1	Yes
● SNMP v2	Yes
● SNMP v3	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

Product functions / DHCP

Product function	
• DHCP client	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	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
• media redundancy protocol (MRP) with redundancy manager	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure MSTP	Yes
• Passive listening	Yes

Product functions / Security

Product function	
• ACL - MAC-based	Yes
• IEEE 802.1x (radius)	Yes
• Broadcast/Multicast/Unicast Limiter	Yes
• broadcast blocking	Yes
Protocol / is supported	
• SSH	Yes

Product functions / Time

Product function	
• SICLOCK support	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, T8
● 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. 60950-5
● 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, T8
● for emitted interference	EN 61000-6-4 (Class A)
● for interference immunity	EN 61000-6-6
Certificate of suitability	EN 61000-6-2, EN 61000-6-8
● CE marking	Yes
● C-Tick	Yes
● KC approval	Yes
● Railway application in accordance with EN 50155	No
● Railway application in accordance with EN 50124-1	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● Bureau Veritas (BV)	No
● Det Norske Veritas (DNV)	No
● Germanische Lloyd (GL)	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
● Polski Rejestr Statkow (PRS)	No

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: 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	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
last modified:	24.09.2015