



SCALANCE XB213-3LD managed layer 2 IE switch 13x 10/100 Mbit/s RJ45 ports, 3x SM FO SC-port 1x console port, diagnostics LED, redundant power supply; IEC 62443-4-2 certified; temperature range 0 °C to +60 °C; DIN-rail mounting; default PROFINET.

<b>product type designation</b>	<b>SCALANCE XB213-3LD</b>
<b>transfer rate</b>	
transfer rate	10 Mbit/s, 100 Mbit/s
number of ports / maximum	16
<b>interfaces / for communication / maximum configuration for modular devices</b>	
number of electrical ports / maximum	13
number of optical ports / maximum	3
<b>interfaces / for communication / integrated</b>	
number of electrical connections	
• for network components or terminal equipment	13; RJ45
number of 100 Mbit/s SC ports	
• for single mode (LD)	3
<b>interfaces / other</b>	
number of electrical connections	
• for operator console	1
• for management purposes	1
• for power supply	1
type of electrical connection	
• for operator console	RJ11
• for management purposes	RJ45
<b>supply voltage, current consumption, power loss</b>	
product component / connection for redundant voltage supply	Yes
<b>type of voltage / 1 / of the supply voltage</b>	DC
• supply voltage / 1 / rated value	24 V
• power loss [W] / 1 / rated value	9.6 W
• supply voltage / 1 / rated value	19.2 ... 28.8 V
• consumed current / 1 / maximum	0.4 A
• type of electrical connection / 1 / for power supply	6-pole terminal block
• product component / 1 / fusing at power supply input	Yes
<b>ambient conditions</b>	
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	IP20
<b>design, dimensions and weights</b>	
design	compact

width	120 mm
height	117 mm
depth	109 mm
net weight	0.5 kg
material / of the enclosure	Polycarbonate (PC-GF10)
fastening method	
<ul style="list-style-type: none"><li>• 35 mm top hat DIN rail mounting</li></ul>	Yes
product features, product functions, product components / general	
cascading in the case of a redundant ring / at reconfiguration time of <1~0.31~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"><li>• CLI</li></ul>	Yes
<ul style="list-style-type: none"><li>• web-based management</li></ul>	Yes
<ul style="list-style-type: none"><li>• MIB support</li></ul>	Yes
<ul style="list-style-type: none"><li>• TRAPs via email</li></ul>	Yes
<ul style="list-style-type: none"><li>• configuration with STEP 7</li></ul>	Yes
<ul style="list-style-type: none"><li>• RMON</li></ul>	Yes
<ul style="list-style-type: none"><li>• port mirroring</li></ul>	Yes
<ul style="list-style-type: none"><li>• multiport mirroring</li></ul>	Yes
<ul style="list-style-type: none"><li>• CoS</li></ul>	Yes
<ul style="list-style-type: none"><li>• PROFINET IO diagnosis</li></ul>	Yes
PROFINET conformity class	B
network load class / according to PROFINET	3
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	
<ul style="list-style-type: none"><li>• Telnet</li></ul>	Yes
<ul style="list-style-type: none"><li>• HTTP</li></ul>	Yes
<ul style="list-style-type: none"><li>• HTTPS</li></ul>	Yes
<ul style="list-style-type: none"><li>• TFTP</li></ul>	Yes
<ul style="list-style-type: none"><li>• FTP</li></ul>	Yes
<ul style="list-style-type: none"><li>• DCP</li></ul>	Yes
<ul style="list-style-type: none"><li>• LLDP</li></ul>	Yes
<ul style="list-style-type: none"><li>• EtherNet/IP</li></ul>	Yes
<ul style="list-style-type: none"><li>• SNMP v1</li></ul>	Yes
<ul style="list-style-type: none"><li>• SNMP v2</li></ul>	Yes
<ul style="list-style-type: none"><li>• SNMP v3</li></ul>	Yes
<ul style="list-style-type: none"><li>• IGMP (snooping/querier)</li></ul>	Yes
identification & maintenance function	
<ul style="list-style-type: none"><li>• I&amp;M0 - device-specific information</li></ul>	Yes
<ul style="list-style-type: none"><li>• I&amp;M1 - higher level designation/location designation</li></ul>	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"><li>• port diagnostics</li></ul>	Yes
<ul style="list-style-type: none"><li>• statistics Packet Size</li></ul>	Yes
<ul style="list-style-type: none"><li>• statistics packet type</li></ul>	Yes
<ul style="list-style-type: none"><li>• error statistics</li></ul>	Yes
<ul style="list-style-type: none"><li>• SysLog</li></ul>	Yes
<ul style="list-style-type: none"><li>• loopback diagnostics</li></ul>	Yes
product functions / VLAN	
product function	
<ul style="list-style-type: none"><li>• VLAN - port based</li></ul>	Yes
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
number of VLANs / at ring redundancy (HRP; MRP; standby link)	257
product functions / DHCP	
product function	
<ul style="list-style-type: none"><li>• DHCP client</li></ul>	Yes

**product functions / redundancy**

product function	
• of the PROFINET IO device / is supported / PROFINET system redundancy	No
• 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
• Media Redundancy Protocol Interconnection (MRP-I)	Yes
• redundancy procedure STP	Yes
• redundancy procedure RSTP	Yes
• redundancy procedure RSTP+	Yes
• Parallel Redundancy Protocol (PRP)/operation in the PRP-network	No
• passive listening	Yes
protocol / is supported	
• LACP	Yes

**product functions / security**

product function	
• ACL - MAC-based	Yes
• ACL - port/MAC-based	Yes
• 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	
• SNTP	Yes

**standards, specifications, approvals**

standard	
• for FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, CL.1, Zone 2, GP. IIC, T4, FM19US0167X
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes
MTBF	40 a
reference code	
• according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE

**standards, specifications, approvals / CE**

certificate of suitability / CE marking	Yes
certificate of suitability / RoHS conformity	Yes; 2011/65/EU

**standards, specifications, approvals / hazardous environments**

standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• 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, T11, E240480
certificate of suitability	
• CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
• CCC / for hazardous zone according to GB standard / as	Ex nA IIC T4 Gc

marking					
standards, specifications, approvals / other					
certificate of suitability	EN 61000-6-2, EN 61000-6-4				
• C-Tick	Yes				
• KC approval	Yes				
further information / internet links					
internet link					
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>				
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>				
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>				
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>				
• to website: Selection guide for cables and connectors	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>				
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>				
• to website: CAX-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>				
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>				
security information					
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit <a href="https://www.siemens.com/industrialsecurity">https://www.siemens.com/industrialsecurity</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.6)				
Approvals / Certificates					
General Product Approval	EMC	For use in hazardous locations			
<a href="#">Manufacturer Declaration</a>	 UL	 RCM	<a href="#">ATEX-Zone 2-Declaration</a>	 IECEX	<a href="#">FM</a>
For use in hazardous locations	Declaration of Conformity				
<a href="#">CCC-Ex</a>	 UL	 EG-Konf.			<a href="#">Manufacturer Declaration</a>
Declaration of Conformity	other	Environment			
<a href="#">Miscellaneous</a>	<a href="#">PROFINET-Certification</a>				

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