

Product type designation



SCALANCE XB004-1

SCALANCE XB004-1 UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 4 X 10/100MBIT/S TWISTED PAIR- PORTS WITH RJ45-SOCKETS; 1 X100MBIT/S MULTIMODE GLASS FOC-PORT WITH SC-SOCKET; FOR CONFIGURING SMALL STAR- AND LINE TOPOGRAPHIES; LED-DIAGNOSIS, IP20, 24 V DC POWER SUPPLY, MANUAL AVAILABLE AS DOWNLOAD

Transmission rate

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

Number of electrical/optical connections	
<ul style="list-style-type: none"> for network components or terminal equipment / maximum 	5
Number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment 	4
Type of electrical connection	
<ul style="list-style-type: none"> for network components or terminal equipment 	RJ45 port
Number of optical interfaces	
<ul style="list-style-type: none"> for fiber optic cable / at 100 Mbit/s 	1
Design of the optical interface	
<ul style="list-style-type: none"> for fiber optic cable / at 100 Mbit/s 	SC port (multimode up to 5 km)
Connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> of the transmitter output of the receiver input / maximum 	-19 ... -14 -14 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-32 dB
Damping ratio / of the FOC transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 5 km

Interfaces / for communication / integrated

Number of 100 Mbit/s SC ports / for multimode	1
Number of 1000 Mbit/s LC ports / for multimode	0
Interfaces / others	
Number of electrical connections	1
• for power supply	
Type of electrical connection	3-pole terminal block
• for power supply	
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
Fuse protection type / at input for supply voltage	0.6 A / 60 V
Consumed current / maximum	0.11 A
Active power loss	
• for DC / at 24 V	2.64 W
Permitted ambient conditions	
Ambient temperature	
• during operation	-10 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	Box
Width	45 mm
Height	100 mm
Depth	87 mm
Net weight	0.165 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
• S7-1500 rail mounting	No
Product functions / management, configuration	
Product function	
• multiport mirroring	No
• switch-managed	No

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 60079-0:2009, EN60079-15:2010, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
<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 emitted interference	EN 61000-6-4 (Class A)
<ul style="list-style-type: none">• for interference immunity	EN 61000-6-2
Certificate of suitability	EN 61000-6-2, EN 61000-6-4
<ul style="list-style-type: none">• CE marking	Yes
<ul style="list-style-type: none">• C-Tick	Yes
<ul style="list-style-type: none">• KC approval	Yes
Marine classification association	
<ul style="list-style-type: none">• Det Norske Veritas (DNV)	No
<ul style="list-style-type: none">• Germanische Lloyd (GL)	No
<ul style="list-style-type: none">• Lloyds Register of Shipping (LRS)	No
<ul style="list-style-type: none">• Nippon Kaiji Kyokai (NK)	No
<ul style="list-style-type: none">• Polski Rejestr Statkow (PRS)	No
MTBF / at 40 °C	232 y

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none">• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
<ul style="list-style-type: none">• to website: Industrial communication	http://www.siemens.com/simatic-net
<ul style="list-style-type: none">• to website: Industry Mall	https://mall.industry.siemens.com
<ul style="list-style-type: none">• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none">• to website: Image database	http://automation.siemens.com/bilddb
<ul style="list-style-type: none">• to website: CAx Download Manager	http://www.siemens.com/cax
<ul style="list-style-type: none">• to website: Industry Online Support	https://support.industry.siemens.com

Security information

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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)

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