SIEMENS

Data sheet 6GK5004-1BF00-1AB2



SCALANCE XB004-1LD unmanaged Industrial Ethernet Switch for 10/100 Mbit/s; for setting up small star and line topologies; LED diagnostics, IP20, 24 V AC/DC power supply, with 4x 10/100 Mbit/s twisted pair ports with RJ45 sockets; 1 x 100 Mbit/s single-mode glass fiber-optic cable port with SC socket; manual available as a download .

product type designation	
product brand name	SCALANCE
product type designation	XB004-1LD
Technical Product Detail Page	https://i.siemens.com/1P6GK5004-1BF00-1AB2
transfer rate	
transfer rate	10, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
● for network components or terminal equipment	4; RJ45
number of 100 Mbit/s SC ports	
● for multimode	0
● for single mode (LD)	1
transmission method / of the optical interface	100BaseLX LD
interfaces / other	
number of electrical connections	
● for power supply	1
type of electrical connection	
● for power supply	3-pole terminal block
supply voltage, current consumption, power loss	
type of voltage / 1 / of the supply voltage	DC
● supply voltage / 1 / rated value	24 V
● power loss [W] / 1 / rated value	2.4 W
● supply voltage / 1 / voltage range	19.2 ... 28.8
● consumed current / 1 / maximum	0.1 A
● type of electrical connection / 1 / for power supply	3-pole terminal block
● product component / 1 / fusing at power supply input	Yes
● fuse protection type / 1 / at input for supply voltage	0,6 A / 60 V
type of voltage / 2 / of the supply voltage	AC
● supply voltage / 2 / voltage range	19.2 ... 28.8
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 weights	

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design	Box
width	45 mm
height	100 mm
depth	87 mm
net weight	0.165 kg
fastening method	
● 35 mm DIN-rail mounting	Yes
● wall mounting	Yes
● S7-1500 rail mounting	No
product functions / management, configuration, engineering	
product function	
● multiport mirroring	No
● CoS	Yes
● switch-managed	No
PROFINET conformity class	A
product functions / redundancy	
product function	
● Parallel Redundancy Protocol (PRP)/operation in the PRP-network	Yes
● Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)	No
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● cULus approval	Yes
● KC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
standard	
● for EMC interference emission	EN 61000-6-4 (Class A)
● for immunity to EMC	EN 61000-6-2
● for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
standards, specifications, approvals / hazardous environments	
certificate of suitability	
● ATEX	Yes
● UKEX	Yes
● IECEx	Yes
● ULhazloc approval	Yes
● CCC / for hazardous zone according to GB standard	Yes
● FM registration	Yes
standards, specifications, approvals / other	
certificate of suitability	
● RoHS conformity	Yes
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	141.3 kg
● during manufacturing	15.99 kg
● during operation	125.18 kg
● after end of life	0.15 kg
product functions / general	
MTBF	238 a
warranty period	5 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud

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● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 cybersecurity 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 cybersecurity 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. 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 Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

Environmental Product Declaration

● global warming potential [CO2 eq] / during manufacturing	15.99 kg
● global warming potential [CO2 eq] / during operation	125.18 kg
● global warming potential [CO2 eq] / after end of life	0.15 kg
● global warming potential [CO2 eq] / total	141.3 kg

Environment	General Product Approval				
EPD	CE EG-Konf.	Declaration of Conformity	CCC	EAC	China RoHS

General Product Approval					
Manufacturer Declaration	UL	RCM	CE EG-Konf.	UKCA	China RoHS

EMV	For use in hazardous locations				
KC	IECEx	ATEX	FM	KEMA	CCC-Ex

Test Certificates		Industrial Communication
Special Test Certificate	Type Test Certificates/Test Report	PROFINET

last modified: 8/28/2026

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