

Product type designation

SCALANCE X224

SCALANCE X224, MANAGED IE SWITCH, 24 X 10/100MBIT/S RJ45 PORTS, LED DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON REDUNDANT POWER SUPPLY, PROFINET-IO DEVICE, NETWORK- MANAGEMENT, OPERATION IN RING, INCL. ELECTRONIC MANUAL ON CD, C-PLUG OPTIONAL



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 	24
Number of electrical connections	
<ul style="list-style-type: none"> for network components or terminal equipment 	24
Type of electrical connection	
<ul style="list-style-type: none"> for network components or terminal equipment 	RJ45 port

Interfaces / for communication / integrated

Number of 100 Mbit/s SC ports / for multimode	0
Number of 1000 Mbit/s LC ports / for multimode	0

Interfaces / others

Number of electrical connections	
<ul style="list-style-type: none"> for signaling contact 	1
<ul style="list-style-type: none"> for power supply 	1
<ul style="list-style-type: none"> for redundant voltage supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> for signaling contact 	2-pole terminal block
<ul style="list-style-type: none"> for power supply 	4-pole terminal block
design of the removable storage	
<ul style="list-style-type: none"> C-PLUG 	Yes

Signal-Inputs/outputs	
Operating voltage / of the signaling contacts	
<ul style="list-style-type: none"> • for DC / Rated value 	24 V
Operating current / of the signaling contacts	
<ul style="list-style-type: none"> • for DC / maximum 	0.1 A
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> • external 	24 V
<ul style="list-style-type: none"> • external 	18 ... 32 V
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	1.1 A / 33 V
Consumed current / maximum	0.35 A
Active power loss	
<ul style="list-style-type: none"> • for DC / at 24 V 	8.4 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum 	95 %
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	180 mm
Height	125 mm
Depth	124 mm
Net weight	1.6 kg
Mounting type	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> • wall mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	Yes
<ul style="list-style-type: none"> • 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	100
Cascading in cases of star topology	Any (depending only on signal propagation time)
Product functions / management, configuration	
Product function	

<ul style="list-style-type: none"> • CLI 	Yes
<ul style="list-style-type: none"> • web-based management 	Yes
<ul style="list-style-type: none"> • MIB support 	Yes
<ul style="list-style-type: none"> • TRAPs via email 	Yes
<ul style="list-style-type: none"> • Configuration with STEP 7 	Yes
<ul style="list-style-type: none"> • Port mirroring 	Yes
<ul style="list-style-type: none"> • multiport mirroring 	No
<ul style="list-style-type: none"> • with IRT / PROFINET IO switch 	No
<ul style="list-style-type: none"> • PROFINET IO diagnosis 	Yes
<ul style="list-style-type: none"> • switch-managed 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • Telnet 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • HTTPS 	Yes
<ul style="list-style-type: none"> • TFTP 	Yes
<ul style="list-style-type: none"> • FTP 	Yes
<ul style="list-style-type: none"> • BOOTP 	No
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • LLDP 	Yes
Identification & maintenance function	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • I&M1 – higher-level designation/location designation 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	Yes
<ul style="list-style-type: none"> • SNMP v3 	Yes

Product functions / Diagnosis

Product function	
<ul style="list-style-type: none"> • Port diagnostics 	Yes
<ul style="list-style-type: none"> • Statistics Packet Size 	Yes
<ul style="list-style-type: none"> • Statistics packet type 	Yes
<ul style="list-style-type: none"> • Error statistics 	Yes

Product functions / DHCP

Product function	
<ul style="list-style-type: none"> • DHCP client 	Yes

Product functions / Redundancy

Product function	
<ul style="list-style-type: none"> • Ring redundancy 	Yes
<ul style="list-style-type: none"> • High Speed Redundancy Protocol (HRP) 	Yes

<ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> • high speed redundancy protocol (HRP) with standby redundancy 	No
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function	
<ul style="list-style-type: none"> • media redundancy protocol (MRP) with redundancy manager 	Yes
<ul style="list-style-type: none"> • Passive listening 	Yes

Product functions / Security

Protocol / is supported	
<ul style="list-style-type: none"> • SSH 	Yes

Product functions / Time

Product function	
<ul style="list-style-type: none"> • SICLOCK support 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • NTP 	No
<ul style="list-style-type: none"> • SNTP 	Yes

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 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
<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 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, T4
<ul style="list-style-type: none"> • for emitted interference 	EN 61000-6-4:2001 (Class A)
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2:2001
Certificate of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
<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
<ul style="list-style-type: none"> • Railway application in accordance with EN 50155 	No
<ul style="list-style-type: none"> • Railway application in accordance with EN 50124-1 	No
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	Yes

• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	No
MTBF / at 40 °C	45.87 y

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: Information and Download Center	http://www.siemens.com/automation/net/catalog
• 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	<p>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)</p>
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