

Product-type designation

SCALANCE X308-2



SCALANCE X308-2,
 MANAGED PLUS IE SWITCH,
 2 X 1000MBIT/S MM SC 1 X 10/100/1000MBIT/S AND 7 X
 10/100MBIT/S RJ45 PORTS,
 LED-DIAGNOSTICS,
 FAULT SIGNAL CONTACT WITH SELECT/SET-BUTTON,
 PROFINET-IO DEVICE,
 NETWORK- MANAGEMENT,
 INTEGRATED REDUNDANCY-MANAGER,
 OFFICE FEATURES (RSTP, VLAN, IGMP,..) C-PLUG IN
 SCOPE OF SUPPLY

Transmission rate

Transfer rate / 1	10 Mbit/s
Transfer rate / 2	100 Mbit/s
Transfer rate / 3	1000 Mbit/s

Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	10
Number of electrical connections	
• for network components and terminal equipment	8
• for alarm contact	1
• for power supply	1
• for redundant power supply	2
Design of electrical connection	
• for network components and terminal equipment	RJ45 port (1 x 1GE, 7 x FE)
• for signaling contact	2 pole terminal block
• for power supply	4-pole terminal block
Number of optical interfaces / for optical waveguide	
• at 1000 Mbit/s	2
Design of optical interface / for optical waveguide	
• at 1000 Mbit/s	SC port (multimode up to 0.75 km)

Connectable optical power relative to 1 mW	
<ul style="list-style-type: none"> • of the transmitter output 	-9.5 ... -4 dB
<ul style="list-style-type: none"> • of the receiver input / maximum 	-3 dB
Optical sensitivity relative to 1 mW / of the receiver input / minimum	-17 dB
Attenuation / of fiber-optic cable transmission link / minimum necessary	0 dB
Range / at the optical interface / depending on the optical fiber used	0 ... 0.75 km
design of the removable storage / C-PLUG	Yes
Inputs/outputs	
Operating voltage / of signaling contacts / at DC / rated value	24 V
Operating current / of signaling contacts / at DC / maximum	0.1 A
Supply voltage, current consumption, power loss	
Type of supply voltage / redundant power supply unit	No
Type of voltage / of 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
Type of fusing / at input for supply voltage	F 3 A / 32 V
Consumed current / maximum	0.4 A
Power loss	
<ul style="list-style-type: none"> • at 24 V / for DC 	9.6 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operating 	-10 ... +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 operating / maximum 	95 %
Protection class IP	IP30
Design, dimensions and weight	
Design	compact
Width	120 mm
Height	125 mm
Depth	123 mm
Net weight	1.4 kg
Type of mounting	
<ul style="list-style-type: none"> • Installation 19 inch 	No
<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
Type of mounting	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
Product properties, functions, components / general	
Cascading in the case of a redundant ring / at reconfiguration time of $\leq 0.3\text{ s}$	50
Cascading in cases of star structuring	Any (depending only on signal propagation time)
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"> • RMON 	Yes
<ul style="list-style-type: none"> • Port mirroring 	Yes
<ul style="list-style-type: none"> • 	Yes
<ul style="list-style-type: none"> • CoS 	Yes
<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 	Yes
<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
<ul style="list-style-type: none"> • IGMP (snooping/querier) 	Yes
<ul style="list-style-type: none"> • GMRP 	Yes
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • LLDP 	Yes
Identification & maintenance	
<ul style="list-style-type: none"> • I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> • I&M1 - plant identification/location name 	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

• Statistics packet type	Yes
• Error statistics	Yes
• SysLog	Yes
Product functions / VLAN	
Product function	
• VLAN - port based	Yes
• VLAN dynamic	Yes
Number of VLANs / maximum	255
Number of VLANs - dynamic / maximum	255
Protocol / is supported / GVRP	Yes
Product functions / DHCP	
Product function	
• DHCP client	Yes
• DHCP Option 82	Yes
• DHCP Option 66	Yes
• DHCP Option 67	Yes
Product functions / Redundancy	
Product function	
• Ring redundancy	Yes
• Redundancy manager	Yes
• Standby redundancy	Yes
• HSR redundancy protocol	Yes
• MRP redundancy protocol	Yes
• redundancy procedure STP	Yes
• RSTP redundancy protocol	Yes
• Passive listening	Yes
Protocol / is supported	
• STP/RSTP	Yes
• STP	Yes
• RSTP	Yes
• RSTP big network support	Yes
• LACP	Yes
Product functions / Security	
Product function	
• ACL - port/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
• IEEE 1588 profile default	No
Standards, specifications, approvals	
Standard	
• for EMC	
• from FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous area / of CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213 -M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
• for emitted interference	EN 61000-6-4:2007 (Class A)
• for interference immunity	EN 61000-6-2:2005
Verification of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE mark	Yes
• C-Tick	Yes
• KC approval	Yes
• Railway application in accordance with EN 50155	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Bureau Veritas (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
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