

Product type designation

SCALANCE X408-2



SCALANCE X408-2, MODULAR IE SWITCH,
 4 X 10/100/1000MBIT/S AND 4 X 10/100MBIT/S RJ45
 PORTS,
 2 X GIGABIT/FAST ETHERNET MEDIA MODULE SLOTS,
 INTEGRATED REDUNDANCE MANAGER,
 OFFICE FEATURES (RSTP, VLAN,..) NETWORK
 MANAGEMENT,
 C-PLUG IN THE 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	12
Number of electrical connections / for operator console	1
Design of electrical connection / for operator console	RS232 port
Number of electrical connections	
• for network components and terminal equipment	8
• for alarm contact	1
• for media module	2
• for power supply	1
• for redundant power supply	1
Design of electrical connection	
• for network components and terminal equipment	RJ45 port (4 x 1GE, 4 x FE)
• for signaling contact	4-pole terminal block
• for power supply	4-pole terminal block
Number of optical interfaces / for optical waveguide	

• at 100 Mbit/s	4
• at 1000 Mbit/s	4
Design of optical interface / for optical waveguide	
• at 100 Mbit/s	BFOC or SC ports via media modules MM491-2, MM491-2LD, MM491-2LH+
• at 1000 Mbit/s	SC ports via media modules MM492-2, MM492-2LD, MM492-2LH, MM492-2LH+
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 voltage / of supply voltage	DC
Supply voltage / external	24 V
• minimum	20.4 V
• maximum	28.8 V
Product component / fusing at power supply input	Yes
Consumed current / maximum	0.7 A
Active power loss	
• at 24 V / for DC	8 W
• maximum	48 W
Permitted ambient conditions	
Ambient temperature	
• during operating	0 °C ... 60 °C
• during storage	-40 °C ... 80 °C
• during transport	-40 °C ... 80 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Design	Modular
Width	242 mm
Height	145 mm
Depth	117 mm
Net weight	1.9 kg
Type of mounting	
• 35 mm DIN rail mounting	Yes
• wall mounting	No
• S7-300 rail mounting	Yes
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	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• RMON	Yes
• SMTP server	Yes
• Port mirroring	Yes
• CoS	Yes
• PROFINET IO diagnosis	Yes
• switch-managed	Yes
Protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• FTP	Yes
• BOOTP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
Identification & maintenance	
• I&M0 - device-specific information	Yes
• I&M1 - plant identification/location name	Yes
Product functions / Diagnosis	
Product function	
• Port diagnostics	Yes
• 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	64
Number of VLANs - dynamic / maximum	64
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 / Routing	
Product function	
• static IP routing	No
• dynamic IP routing	No
Protocol / is supported	
• RIPv2	No
• OSPFv2	No
• VRRP	No
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 - 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
Product functions / Time	
Product function / SICLOCK support	Yes
Protocol / is supported	
• NTP	No
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC / from FM	FM3611: Class 1, Division 2, Group A, B, C, D / T4 A, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA IIT4, KEMA 07 ATEX 0145 X
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1-03
• for hazardous area / of CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
• for emitted interference	EN 61000-6-4:2001 (Class A)
• for interference immunity	EN 61000-6-2:2001
Verification of suitability	EN 61000-6-2:2001, EN 61000-6-4:2001
• CE mark	Yes
• C-Tick	Yes
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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