

Product type designation

SCALANCE X106-1

SCALANCE X106-1, UNMANAGED IE SWITCH, 6 X 10/100MBIT/S RJ45 PORTS, 1 X 100 MBIT/S MULTIMODE BFOC, LED DIAGNOSTICS, FAULT SIGNAL. CONTACT WITH SET BUTTON, REDUNDANT VOLTAGE SUPPLY MANUAL AVAILABLE AS DOWNLOAD



Transmission rate

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

Interfaces

Number of electrical/optical connections	7
<ul style="list-style-type: none"> for network components or terminal equipment / maximum 	
Type of electrical connection	RJ45 port
<ul style="list-style-type: none"> for network components or terminal equipment 	
Number of optical interfaces	1
<ul style="list-style-type: none"> for fiber optic cable / at 100 Mbit/s 	
Design of the optical interface	BFOC port (multimode up to 5 km)
<ul style="list-style-type: none"> for fiber optic cable / at 100 Mbit/s 	
Connectable optical power relative to 1 mW	-19 ... -14
<ul style="list-style-type: none"> of the transmitter output 	
<ul style="list-style-type: none"> of the receiver input / maximum 	-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 electrical connections / for network components or terminal equipment	6; RJ45 with securing collar
Number of 100 Mbit/s ST(BFOC) ports <ul style="list-style-type: none"> • for multimode 	1
Number of 100 Mbit/s SC ports <ul style="list-style-type: none"> • for multimode 	0
Number of 1000 Mbit/s LC ports <ul style="list-style-type: none"> • for multimode • for single mode (LD) 	0 0

Interfaces / others

Number of electrical connections <ul style="list-style-type: none"> • for signaling contact • for power supply • for redundant voltage supply 	1 1 1
Type of electrical connection <ul style="list-style-type: none"> • for signaling contact • for power supply 	2-pole terminal block 4-pole terminal block

Signal-Inputs/outputs

Operating voltage / of the signaling contacts <ul style="list-style-type: none"> • at DC / Rated value 	24 V
Operating current / of the signaling contacts <ul style="list-style-type: none"> • at 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 • external 	24 V 18 ... 32 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	0.15 A
Power loss [W] <ul style="list-style-type: none"> • at DC / at 24 V 	3.6 W

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage 	-10 ... +60 °C -40 ... +80 °C
--	----------------------------------

<ul style="list-style-type: none"> during transport 	-40 ... +80 °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	60 mm
Height	125 mm
Depth	124 mm
Net weight	0.78 kg
Mounting type <ul style="list-style-type: none"> 35 mm DIN rail mounting wall mounting S7-300 rail mounting S7-1500 rail mounting 	Yes Yes Yes No

Product functions / management, configuration

Product function <ul style="list-style-type: none"> multiport mirroring CoS switch-managed 	No Yes No
---	-----------------

Standards, specifications, approvals

Standard <ul style="list-style-type: none"> for FM for hazardous zone for safety / from CSA and UL for hazardous zone / from CSA and UL for emitted interference for interference immunity 	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 EN 60079-0:2009, EN60079-15:2010, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X UL 60950-1, CSA C22.2 No. 60950-1 UL 1604 and UL 2279-15 (Hazardous Location), Class 1 / Division 2 / Group A, B, C, D / T.., Class 1 / Zone 2 / Group IIC / T.. EN 61000-6-4 (Class A) EN 61000-6-2
Certificate of suitability <ul style="list-style-type: none"> CE marking C-Tick KC approval 	EN 61000-6-2, EN 61000-6-4 Yes Yes Yes
Marine classification association <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) 	Yes Yes Yes No

• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (NK)	Yes
• Polski Rejestr Statkow (PRS)	Yes
• Royal Institution of Naval Architects (RINA)	Yes
MTBF / at 40 °C	136.65 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/industry/infocenter
• 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>
----------------------	--

last modified: 28.11.2015