

Product type designation

SFP992-1LH+

SCALANCE X accessory, Plug-in transceiver SFP992-1LH+ 1x 1000 Mbit/s LC port, optical; single-mode optical up to max. 70 km



Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	1
Number of optical interfaces / for network components or terminal equipment / maximum	1
Number of 1000 Mbit/s LC ports / for single mode (LD) / Integrated	1
Design of the optical interface / for network components or terminal equipment	LC
Wavelength / of the optical interface	1550 nm; Single-mode
Connectable optical power relative to 1 mW <ul style="list-style-type: none"> • of the transmitter output / minimum • of the transmitter output / maximum • of the receiver input / maximum 	0 dB 5 dB -3 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-22 dB
Damping ratio / of the FOC transmission link / minimum necessary	8 dB

Range / at the optical interface / depending on the optical fiber used	30 ... 70 km
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Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport Note 	<p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p> <p>A maximum operating temperature of +85 °C is permissible for a duration of 16 hours</p>
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weights

Design	SFP Module
Width	14 mm
Height	9 mm
Depth	57 mm
Net weight	0.01 kg
Mounting type	latched

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> for FM for hazardous zone for safety / from CSA and UL for emitted interference for interference immunity 	<p>FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4</p> <p>EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X</p> <p>UL 60950-1, CSA C22.2 No. 60950-1-03</p> <p>EN 61000-6-4:2007 (Class A)</p> <p>EN 61000-6-2:2005</p>
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
<ul style="list-style-type: none"> CE marking C-Tick KC approval 	<p>Yes</p> <p>Yes</p> <p>No</p>
Marine classification association	
<ul style="list-style-type: none"> Bureau Veritas (BV) 	Yes
MTBF	490 y

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL to website: Industrial communication to website: Industry Mall to website: Information and Download Center 	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p>

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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