

### Product type designation

Product description

### MM991-2LH+

XR-300 media module

SCALANCE X accessory, Media module MM991-2LH+, 2x 100

Mbit/s SC ports optical; single-mode optical up to max. 70 km



### Interfaces

Number of electrical/optical connections / for network components or terminal equipment / maximum	2
Number of optical interfaces / for network components or terminal equipment / maximum	2
Number of 100 Mbit/s SC ports / for multimode / Integrated	2
Design of the optical interface / for network components or terminal equipment	SC
Wavelength / of the optical interface	1550 nm; Single-mode
Connectable optical power relative to 1 mW <ul style="list-style-type: none"> <li>• of the transmitter output / minimum</li> <li>• of the transmitter output / maximum</li> <li>• of the receiver input / maximum</li> </ul>	-5 dB 0 dB -3 dB
Optical sensitivity relating to 1 mW / of the receiver input / minimum	-34 dB
Damping ratio / of the FOC transmission link / minimum necessary	3 dB

Range / at the optical interface / depending on the optical fiber used	12 ... 70 km
<b>Ambient conditions</b>	
Ambient temperature	
• during operation	-40 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20
<b>Design, dimensions and weights</b>	
Design	Media module
Width	60 mm
Height	22 mm
Depth	100 mm
Net weight	0.08 kg
Mounting type	latched
• Installation in media module slot	Yes
<b>Standards, specifications, approvals</b>	
Standard	
• for FM	FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4
• for hazardous zone	EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4, KEMA 07 ATEX 0145 X
• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
• for hazardous zone / from 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
Certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• CE marking	Yes
• C-Tick	Yes
• KC approval	Yes
Marine classification association	
• Bureau Veritas (BV)	Yes
MTBF	105 y
<b>Further information / Internet-Links</b>	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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

<http://www.siemens.com/industry/infocenter>

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

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

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

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