



**Product:** MSM20-M2M2M2M2SZ9HH9E99.9.99

**Configurator:** MSM - Media Module for MSP configurator

## Configurator Description

The variety of transmission media and range of connector versions ensure an optimum degree of flexibility and application coverage. Any combination of the hot-swappable media modules may be used to attain the desired port density/type on a MICE Switch Power switch. The sole limitation is the number of media module slots on a switch (one media module per slot).

## Technical Specifications

### Product description

Description	Fast Ethernet Media Module for PowerMICE Switches (MSP) , Standard Ethernet media modul
Port type and quantity	Port 1: 100BASE-FX, MM-SC; Port 2: 100BASE-FX, MM-SC; Port 3: 100BASE-FX, MM-SC; Port 4: 100BASE-FX, MM-SC

### Network size - length of cable

Multimode fiber (MM) 50/125 $\mu$ m	Port 1: 0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km Port 2: 0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km Port 3: 0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km Port 4: 0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 $\mu$ m	Port 1: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km Port 2: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km Port 3: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km Port 4: 0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km

### Power requirements

Operating Voltage	Power supply via the backplane of the MSP switch
Power consumption	5 W
Power output in BTU (IT)/h	17

### Software

Diagnostics	LEDs (power, mode, link/data)
-------------	-------------------------------

### Ambient conditions

Operating temperature	0-+60 °C
Storage/transport temperature	-40-+85 °C
Relative humidity (non-condensing)	5-95 %

### Mechanical construction

Dimensions (WxHxD)	38 mm x 133 mm x 118 mm
Weight	249 g
Mounting	Backplane
Protection class	IP20

### Mechanical stability

IEC 60068-2-6 vibration	5 Hz - 8.4 Hz with 3.5 mm amplitude; 8.4 Hz-150 Hz with 1 g
IEC 60068-2-27 shock	15 g, 11 ms duration

### EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD)	$\pm$ 4 kV contact discharge; $\pm$ 8 kV air discharge
--	--

EN 61000-4-3 electromagnetic field	10 V/m (80 MHz-3000 MHz)
EN 61000-4-4 fast transients (burst)	± 2 kV power line; ± 4 kV data line
EN 61000-4-5 surge voltage	power line: ± 2 kV (line/earth), ± 1 kV (line/line); data line: ± 1 kV (line/earth)
EN 61000-4-6 Conducted Immunity	10 V (150 kHz-80 MHz)

## EMC emitted immunity

EN 55022	EN 55032 Class A
FCC CFR47 Part 15	FCC 47CFR Part 15, Class A

## Approvals

Basis Standard	C-Tick EN61131
Safety of industrial control equipment	EN 60950
Transportation	NEMA TS2

## Reliability

Guarantee	60 months (please refer to the terms of guarantee for detailed information)
-----------	---

## Scope of delivery and accessories

Scope of delivery	Device, General safety instructions
-------------------	-------------------------------------

## Further Instructions

Product Documentation	<a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>
Certificates	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.