



**Product:** MSM20-M4M4T1T1SY9HH9E99.9.99

**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-ST; Port 2: 100BASE-FX, MM-ST; Port 3: 10/100BASE-TX, RJ45; Port 4: 10/100BASE-TX, RJ45

### Network size - length of cable

Twisted pair (TP)	Port 3: 0-100 m Port 4: 0-100 m
Multimode fiber (MM) 50/125 µm	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
Multimode fiber (MM) 62.5/125 µm	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

### Power requirements

Operating Voltage	Power supply via the backplane of the MSP switch
Power consumption	4 W
Power output in BTU (IT)/h	14

### Software

Diagnostics	LEDs (power, mode, link/data)
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### 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 × 133 mm × 118 mm
Weight	201 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)	± 4 kV contact discharge; ± 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: $\pm 2$ kV (line/earth), $\pm 1$ kV (line/line); data line: $\pm 1$ 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; cUL508, UL60950
Transportation	NEMA TS2

Reliability

Guarantee	60 months (please refer to the terms of guarantee for detailed information)
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Scope of delivery and accessories

Scope of delivery	Device, General safety instructions
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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>

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