




## Product information MM3-1FXL2/3TX1

Industrial Ethernet:Modular Industrial Switches:Media modules:Ethernet / Fast-Ethernet MICE Media Modules:MM3-1FXL2/3TX1

<https://e-catalog.beldensolutions.com:443/link/57078-24455-49860-81778-24482-34240/en/conf/ulistate>

Name	MM3-1FXL2/3TX1
	
	Media module for MICE Switches (MS...),100BASE-TX and 100BASE-FX single mode F/O
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	Media module for MICE Switches (MS...), 100BASE-TX and 100BASE-FX single mode F/O
Port type and quantity	1 x 100BASE-FX, SM cables, 1550 nm, SC sockets 3 x 10/100BASE-TX, TP cables, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
Type	MM3-1FXL2/3TX1
Order No.	943 763-101
<b>Network size - length of cable</b>	
Twisted pair (TP)	0 -100 m
Single mode fiber (LH) 9/125 µm (long haul transceiver)	24 -86.6 km 7 - 29 dB link budget at 1550 nm A = 0.3 dB/km, 3 dB reserve, D = 19 ps/(nm x km)
<b>Power requirements</b>	
Operating voltage	power supply via the backplane of the MICE switch
Power consumption	3.4 W
<b>Service</b>	
Diagnostics	LEDs (power, link status, data, 100 Mbit/s, auto-negotiation, full duplex, ring port, LED test)
<b>Ambient conditions</b>	
Operating temperature	0 °C to +60 °C standard ( optional -40°C to +70°C)
Storage/transport temperature	-40 °C to +70 °C
Protective paint on PCB	optional
Relative humidity (non-condensing)	10% to 95%
MTBF	76.6 years; MIL-HDBK 217F; Gb 25 °C
<b>Mechanical construction</b>	
Dimensions (W x H x D)	38 mm x 134 mm x 118 mm
Mounting	Backplane
Weight	180 g
Protection class	IP 20
<b>Mechanical stability</b>	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.
<b>EMC interference immunity</b>	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage	Power line: 2 kV (line/earth), 1 kV (line/line), 1kV data line
EN 61000-4-6 conducted immunity	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A



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#### Approvals

Safety of industrial control equipment	cUL 508
Hazardous locations	ISA 12.12.01 Class 1 Div. 2 (pending)
Shipbuilding	Germanischer Lloyd
<b>Scope of delivery and accessories</b>	
Scope of delivery	module, operating manual
Accessories to order separately	ML-MS2/MM labels

For more information please contact:

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