



MM4-2TX/SFP

Industrial Networking:Industrial Ethernet:MICE:Gigabit ETHERNET Media Modules

Product description	
Description	Media module for MICE Switch MS4128, MS30xx, 10/100/1000BASE-TX und 1000BASE-SX/LX
Port type and quantity	2 x 1000BASE-fiber with SFP modules, or 2 x 10/100/1000BASE-TX, TP cable, RJ45-sockets, autocrossing, autoneg., autopolarity any combination TX or SFP, 1 SFP deactivates 1TX, up to 2 ports
Type	MM4-2TX/SFP
Order No.	943 622-001
Network size - length of cable	
Twisted pair (TP)	0 - 100 m
Multimode fiber (MM) 50/125 µm	cf. SFP module M-SFP-SX/LC and M-SFP-LX/LC
Multimode fiber (MM) 62.5/125 µm	cf. SFP module M-SFP-SX/LC and M-SFP-LX/LC
Single mode fiber (SM)9/125 µm	cf. SFP moduleM-SFP-LX/LC
Single mode fiber (LH)9/125 µm (long haul transceiver)	cf. SFP FO module M-SFP-LH/LC and M-SFP-LH+/LC
Power requirements	
Operating voltage	power supply via the backplane of the MICE switch
Power consumption	2 W
Service	
Diagnostics	LEDs (power, link status, data, 1000 Mbit/s, auto-negotiation, full duplex, ring port, LED test)
Ambient conditions	
Operating temperature	0 °C bis +60 °C standart (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	163 years; MIL-HDBK 217F: Gb 25 °C
Mechanical construction	
Dimensions (W x H x D)	38 mm x 134 mm x 77 mm
Mounting	Backplane
Weight	160 g
Protection class	IP 20
Mechanical stability	
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.
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
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)
EMC emitted immunity	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	

Safety of industrial control equipment	cUL 508 (E175531)
Hazardous locations	cUL 1604 class1 div2
Germanischer Lloyd	optional
Railway norm	optional
Substation	optional

Scope of delivery and accessories

Scope of delivery	module, operating manual
Accessories to order separately	ML-MS2/MM labels