HIRSCHMANN

A BELDEN BRAND

Description and Operating Instructions Modular Industrial Communication Equipment

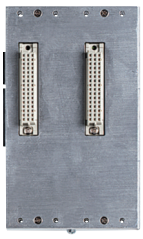
MICE Media modules



MM2-2FXM3/2TX1 MM2-4TX1 MM4-4TX/SFP MM2-2FLM4 MM2-2FXM2 MM2-2FXS2



MM3-2AUI MM3-2FXM4/2TX1 MM3-2FXS2/2TX1 MM3-2FXM2/2TX1 MM3-1FXM2/3TX1 MM3-1FXL2/3TX1 MM3-1FXS2/3TX1 MM2-4FXM3 MM3-4FXM2 MM3-4FXS2 MM3-4FXM4 MM3-4FLM4



MB20 (former designation: MB-2T expansion module

The **M**odular **I**ndustrial **C**ommunication **E**quipment, MICE, is a modular network component. It was developed particularly for use in an industrial environment.

The media modules described in this instructions are the interface of the device to the LAN and can be plugged onto the following basic modules of the MICE switch:
– MS2108-2 (MICE 2000)
– MS3124-4 (MICE 3000)
– MS20-… and MS30-…

The MB20 expansion module allows you to add 2 slots to the MS20-1600, MS30-1602, MS3124-4 MICE switch basic module for installing media modules.

The media modules are exclusively intended for use with Hirschmann MS... modular switches.

MICE allows you to construct switched Industrial ETHERNET networks that conform to the IEEE 802.3 standard.

In the
– User manual “Installation“
– User manual “Basic configuration“
– User manual “Redundancy configuration“
– Reference manual “Web-based Interface“
– Reference manual “Command Line Interface“
you will find a detailled description of the MICE and further information.

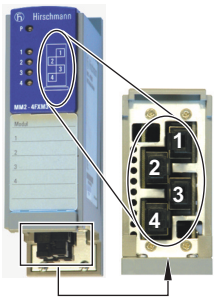
Hirschmann. Simply a good Connection.

Release 15 Date: 2023-03-27

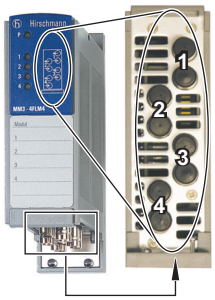
5. MICE media modules

5.1 PORT ASSIGNMENT (EXAMPLES)

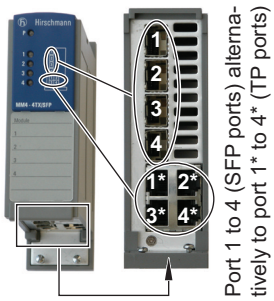
MM2-4FXM3



MM3-4FLM4

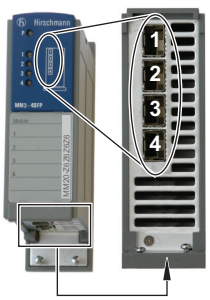


MM4-4TX/SFP



Port 1 to 4 (SFP ports) alternatively to port 1* to 4* (TP ports)

MM3-4SFP (MM20-Z6Z6Z6Z6)



5.2 NUMBER AND KIND OF MEDIA CONNECTORS

MICE2000 media modules

Module type	AUI port	TP ports 10/100	F/O port multimode 10 Mbit/s	F/O port multimode POF 100 Mbit/s	F/O port multimode 100 Mbit/s	F/O port singlemode 1300 nm, 100 Mbit/s	F/O port singlemode 1550 nm, 100 Mbit/s	Supported since MICE SW release MICE	Power MICE	MS20 MS30
MM2-4TX1(-EEC)	–	4 × RJ45	–	–	–	–	–	1.0	1.0	1.0
MM2-2FLM4	–	–	2 × ST	–	–	–	–	1.0	1.0	1.0
MM2-4FXM3	–	–	–	–	4 × MTRJ	–	–	1.0	1.0	1.0
MM2-2FXM3/2TX1	–	2 × RJ45	–	–	2 × MTRJ	–	–	1.0	1.0	1.0
MM2-2FXM2	–	–	–	–	2 × DSC	–	–	1.0	1.0	1.0
MM2-2FXS2	–	–	–	–	–	2 × DSC	–	2.0	1.0	1.0

Table 1: Number of media connectors each MICE2000 media module, kind of connector and necessary software

MICE3000 media modules

Module type	AUI port	TP ports 10/100	F/O port multimode 10 Mbit/s	F/O port multimode POF 100 Mbit/s	F/O port multimode 100 Mbit/s	F/O port singlemode 1300 nm, 100 Mbit/s	F/O port singlemode 1550 nm, 100 Mbit/s	Supported since MICE SW release MICE	Power MICE	MS20 MS30
MM3-2AUI	2 × Sub-D-St.	–	–	–	–	–	–	4.0	1.0	1.0
MM3-2FLM4/2TX1-RT [1)]	–	2 × RJ45	2 × ST	–	–	–	–	5.0	2.0	1.0
MM3-4FLM4	–	–	4 × ST	–	–	–	–	2.0	1.0	1.0
MM3-1FXM2/3TX1	–	3 × RJ45	–	–	1 × DSC	–	–	3.1	1.0	1.0
MM3-2FXM2/2TX1(-EEC)	–	2 × RJ45	–	–	2 × DSC	–	–	2.0	1.0	1.0
MM3-2FXM4/2TX1	–	2 × RJ45	–	–	2 × ST	–	–	3.1	1.0	1.0
MM3-4FXM2	–	–	–	–	4 × DSC	–	–	2.0	1.0	1.0
MM3-4FXM4	–	–	–	–	4 × ST	–	–	3.1	1.0	1.0
MM3-1FXS2/3TX1(-EEC)	–	3 × RJ45	–	–	–	1 × DSC	–	3.1	1.0	1.0
MM3-2FXS2/2TX1	–	2 × RJ45	–	–	–	2 × DSC	–	2.0	1.0	1.0
MM3-2FXS2/2TX1-RT [1)]	–	2 × RJ45	–	–	–	2 × DSC	–	5.0	2.0	1.0
MM3-4FXS2	–	–	–	–	–	4 × DSC	–	3.1	1.0	1.0
MM3-1FXL2/3TX1	–	3 × RJ45	–	–	–	–	1 × DSC	2.0	1.0	1.0

Table 2: Number of media connectors each MICE3000 media module, kind of connector and necessary software

[1)] Realtime modules, in line with IEEE 1588 PTP (Precision Time Protocol Version 2)

MICE4000 media modules

Module type	TP ports 10/100/1000	SFP ports alternativ zu TP-Ports/ alternatively to TP ports	Supported since MICE SW release MICE	Power MICE	MS20 MS30
MM4-2TX/SFP	2 × RJ45	2	–	2.0	1.0
MM4-4TX/SFP	4 × RJ45	4	–	1.0	1.0

Table 3: Number of media connectors each MICE4000 media module, kind of connector and necessary software