



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **4310902 HH**

Company **Hirschmann Electronics GmbH & Co. KG**
Stuttgarter Straße 45 - 51
D-72654 Neckartenzlingen

Product Description **Ethernet LAN components**
Switches and Media Modules

Type **MICE**

Environmental Category **C, EMC 1**

Technical Data / **Modular industrial communication equipment.**

Range of Application

It allows to construct switched ETHERNET networks that conform to the IEEE 802. and 802.3u standard using copper wires or optical fibers in a bus or ring topology.

The switches are mounted by snapping them onto a standard DIN rail.

The components covered by this certificate are listed on page 2 and 3.

Test Standard **Guidelines for the Performance of Type Approvals 2003**
Regulations for the Use of Computers and Computer Systems

Documents **Tests according to table "Übersicht Baumusterprüfungen MICE"**
Manual "Beschreibung und Betriebsanleitung MICE"
CD 140203, CD MM3-xFX
Software Questionnaire requirement class 3, dated 2000-03-28

Remarks **Application specific system requirements are to be observed for the network layout.**

Valid until **2009-03-08**

Page **1 of 3**

Type Approval Symbol



File No. **I.B.08**

Hamburg, 2004-03-09

Germanischer Lloyd

W. Voß

M. Rinkel

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **4310902 HH**

Switches:

- MS2108-2: 8-port Ethernet / Fast Ethernet Switch, 2 slots for Media Modules
- MS3124-4: 8-port Ethernet / Fast Ethernet Switch, 4 slots for Media Modules
- MB-2T: backplane, extension accessory to MS3124-4, 2 slots for Media Modules

Media Modules, twisted-pair ports:

- MM2-4TX1: 4 ports, 100BASE-T(X), RJ45

Media Modules, F/O ports:

- MM2-4FXM3: 4 ports, 100BASE-FX, multimode, MTRJ connections
- MM2-2FXM2: 2 ports, 100BASE-FX, multimode, DSC connections
- MM2-2FXS2: 2 ports, 100BASE-FX, singlemode, DSC connections
- MM3-4FXM2: 4 ports, 100BASE-FX, multimode, DSC connections
- MM3-4FXM4: 4 ports, 100BASE-FX, multimode, BFOC connections
- MM3-4FXS2: 4 ports, 100BASE-FX, singlemode, DSC connections
- MM3-4FLM4: 4 ports, 10BASE-FL, multimode, ST connections
- MM2-2FLM4: 2 ports, 10 Base-FL, multimode, ST connections

Valid until **2009-03-08**

Page **2 of 3**

File No. **I.B.08**

Hamburg, 2004-03-09

Type Approval Symbol



Germanischer Lloyd

W. Voß

M. Rinkel

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **4310902 HH**

Media Modules, twisted-pair and F/O ports:

- MM2-2FXM3/2TX1:
 - 2 ports 100BASE-FX, multimode, MTRJ connections
 - 2 ports 10/100BASE-T(X), RJ45
- MM3-1FXM2/3TX1:
 - 1 port 100BASE-FX, multimode, DSC connection
 - 3 ports 10/100BASE-T(X), RJ45
- MM3-2FXM2 / 2TX1:
 - 2 ports 100BASE-FX, multimode, DSC connections
 - 2 ports 10/100BASE-T(X), RJ45
- MM3-2FXM4 / 2TX1:
 - 2 ports 100BASE-FX, multimode, BFOC connections
 - 2 ports 10/100BASE-T(X), RJ45
- MM3-1FXS2 / 3TX1:
 - 1 port 100BASE-FX, singlemode, DSC connection
 - 3 ports 10/100BASE-T(X), RJ45
- MM3-2FXS2 / 2TX1:
 - 2 ports 100BASE-FX, singlemode, DSC connections
 - 2 ports 10/100BASE-T(X), RJ45
- MM3-1FXL2 / 3TX1:
 - 1 port 100BASE-FX, singlemode, DSC connections, Long Haul
 - 3 ports 10/100BASE-T(X), RJ45

Software Version MICE 4.02

Valid until **2009-03-08**

Page **3 of 3**

File No. **I.B.08**

Hamburg, 2004-03-09

Type Approval Symbol



Germanischer Lloyd

W. Voß

M. Rinkel

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".