

MICE Modular managed switches

Stand: August 2012

MS 30 **24** **02**

Design FE-ports GE-ports

S **A** **A** **P**

Temperature Power Supply Approvals Software

O p t i o n a l
H **H** **07.01**

Configuration OEM type Software release

Modular switch (Rail)

- MS 20** Modular switch (10/100 Mbit/s)
- MS 30** Modular switch (10/100 Mbit/s + 2 ports 1000 Mbit/s)

Number of Fast-ETHERNET ports

- 08** 8x 100 Mbit
- 16** 16x 100 Mbit
- 24** 24x 100 Mbit

Number of Gigabit-ETHERNET ports

- 00** No Gigabit-ETHERNET port
- 02** 2x 1000 Mbit

Temperature range

- S** Standard 0°C up to +60°C
- T** Extended -40°C up to +70°C
- E** Extended -40°C up to +70°C inclusive Conformal Coating

Power supply

- A** 18 - 32 V DC
- C** 18 - 60 V DC / 2x 4-pin plug
- E** 18 - 60 V DC / 6-pin plug



Software release

- xx.x** Newest version

OEM type

- H** Standard
- X** Customer specific

Configuration

- H** Standard
- X** Customer specific

Software version

- E** Enhanced Remote access, diagnosis, filters, redundancy
- P** Professional: Enhanced software plus security, extended diagnosis and redundancy

Approvals

- Z** CE
- Y** CE, cUL508
- A** CE, cUL508, ISA 12.12.01 class1 div.2
- B** CE, cUL508, ISA 12.12.01 class1 div.2, EN50121-4, ATEX Zone2
- E** CE, UL 508, GL, EN 50121-4
- H** CE, UL508, ISA 12.12.01 class1 div.2, GL, IEC61850-3, IEEC 1613, EN 50121-4

optional

PowerMICE MS4128

MS 4128-5 Power MICE --- L2P, also possible for L3E
943 009-001 *out of delivery*
L3E bis max. SW 5.x

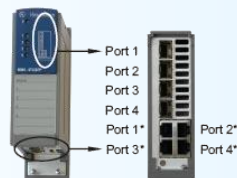
MS 4128-L2P Power MICE --- Layer 2 Professional
943 009-101
4 slots and 1 slot Gigabit (4 ports modul)

MS 4128-L3E Power MICE --- Layer 3 Enhanced
943 009-201
4 slots and 1 slot Gigabit (4 ports modul)

MS 4128-L3P Power MICE --- Layer 3 Professional
943 009-301
4 slots and 1 slot Gigabit (4 ports modul)



Old name: **MM4-4TX/SFP**
New name: **MM30-07070707 xx**



Ports 1 to 4: SFP ports, alternative to the ports 1* to 4* (TP ports)



Gigabitmodul for MS4128-xx and MS30

MM4- 4TX/SFP 943 010-001
New: MM30-07070707 xx
4x 10/100/1000B-T(X) (RJ45)
Combo slots with 4 RJ45/4 slots for SFP moduls

MM4- 2TX/SFP 943 622-001
New MM30-07079999 xx
2x 10/100/1000B-T(X) (RJ45)
Combo slots with 2 RJ45/4 slots for SFP moduls



| Module | Technology | Port type 1 | Port type 2 | Port type 3 | Port type 4 | Temperature | Approvals | OEM type | OEM type |
|--------|------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|----------|
| MM2 | 0 | | | | | S | A | H | H |

Technology

0: Standard; 1: ~~Realtime~~; 2: PoE; 3: Precisions Time Protocol 2; 4: Digital IO

Every media modul (MM2xx or MM3xx) is pluggable on every MICE device (MSxx)

Port Type 1 to 4

Z6: SFP slot Fiber (100Mbit/s)

| | |
|--|----------------------------|
| G2: Singlemode Fiber Long Haul+: SM LH+ /SC (100Mbit) | 14-47dB (67-176km); 1550nm |
| L2: Singlemode Fiber Long Haul: SM LH /SC (100Mbit) | 7-29dB (24-86km); 1550nm |
| S2: Singlemode Fiber: SM /SC (100Mbit) | 0-16dB (0-30km); 1300nm |
| S4: Singlemode Fiber: SM /ST (100Mbit) | 0-16dB (0-30km); 1300nm |
| M2: Multimode Fiber: MM /SC (100Mbit) | 0-8dB (0-5km); 1300nm |
| M3: Multimode Fiber /MM /MTRJ (100Mbit) | 0-8dB (0-5km); 1300nm |
| M4: Multimode Fiber: MM /ST(100Mbit) | 0-8dB (0-5km); 1300nm |
| F4: Multimode Fiber :MM /ST(10Mbit) | 0-9,5dB (0-2km); 850nm |
| P9: Plastic optic fiber POF/SCRJ(100Mbit) | 0-7dB (0-140m); 650nm |

T1: Twisted Pair: RJ45 (10/100 Mbit)

T5: Twisted Pair: M12 (10/100 Mbit)

A8: AUI: DSub-male (10 Mbit)

99: empty

Temperature

S: 0°C to +60°C; **T:** -40°C to +70°C; **E:** -40°C to +70°C incl. conformal coating

Approvals

A: CE, cUL508, ISA 12.12.01 class1 div.2

B: CE, cUL 508, ISA 12.12.01 class1 div.2 EN50121-4, ATEX Zone2

E: CE, UL 508, GL, EN 50121-4

H: CE, UL508, ISA 12.12.01 class1 div.2, GL, IEC 61850-3, IEEE1613, EN 50121-4

Z: CE

Y: CE, cUL 508

Durch Änderungen in den Normen ist es leider dazu gekommen, daß einige Medienmodule die Normen (ATEX Zone 2, ISA 12.12.01 class1 div.2, IEC 61850, IEEE1613) nicht mehr erfüllen. Die Nachzertifizierung läuft.. Vorhandene Matrix beachten!