FibroLAN

# Access

# mS.CON2

Fast Ethernet

## Compact Dual Channel 10/100BaseTX-FX Media Converter

The mS.CON2 compact size device provides two independent conversion channels. Each channel includes a TP and a F/O port. The main purpose of the product is to connect each 10/100TX port to its respective F/O port. The two channels form two-separated security VLANs.
The copper ports support Auto-negotiation and MDI/MDI-X auto-crossover.
Special attention is given to allow easy installation and maintenance: internal quality power-supply, extensive diagnostics and full performance.

The unique Fault Propagation feature will cut a TP port automatically whenever the device senses loss of the respective F/O link. Far End Fault Signaling (FEF) provides a true indication of the proper operation of the fiber links. TP ports can be connected to different networks or to two ports of same router for network redundancy. The managed version, the mS. CON2M, provides full remote management via any SNMP platform or via a terminal application.

## Key Features

- **Top Performance**: maximal distances (150km F/O, 100m STP) in any network architecture
- **Protection of investment**: 10Base-T support for easy migration
- **Versatile installation:** desk-top, half rack, full rack or wall-mounted
- **Feasibility:** Front Panel 10 DIP switches facilitate the proper setting of the device
- **Reliability**: internal quality power-supply (AC or DC)
- **Fault propagation:** for mission critical applications (FO>TP)
- **Port based security VLAN**. **VLAN tag frames are supported**
- **Frame length range: 64 ÷ 1536 byte.**
- **FEF (Far End Fault):** for true F/O link integrity
- **Management (Out-of-Band/CLI, In-Band/SNMP)**

## Management Functions

- **Main Menu** display
- **Device status menu** (basic and advanced status)
- **Basic channel's status:** channel number, FO and TP Link status, Auto-Negotiation mode (enabled/disabled),TP Duplex Mode (FDX/HDX) Data Rate (10/100), Fault Propagation (on/off), Connection mode(connected/disconnected)
- **Basic device status:** Test mode (on/off) and device's temperature (in $C^0$)
- **Advanced channel's status:** includes, channel and port numbers, Tag insertion mode (Yes/No), Tag stripping mode (Yes/No), Port VID (0-4095)
- **Device control:** Channel 1/Channel 2 control, Management control, Device control, Reset Device
- **Channel x control:** TP basic control, TP advanced control, FO control, change Fault Propagation mode (FO>TP)

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## General Specification

**Standard Compliance**
IEEE 802.3u, 100Base-TX, 10Base-T, FDSE 100Base-FX

**10/100Base-TX ports (2)**
Shielded RJ-45
Half/Full Duplex support via Auto-Negotiation or forced; 100m over STP Cat.5 cable; Auto-Cross support

**Diagnostic LEDs**
Power, F/O Link/Activity, TP Link/Activity 10/100M
Test Mode ON (disables Far End Fault and Fault Propagation for both channels)

**Conversion Method**
**BMD** (**B**uffered **M**edia **D**omain) with Fault Propagation (FO>>TP)

**100Base-FX ports (2)**
Multi Mode Fiber: Output Power -18dbm min; Sensitivity -32dbm or better Single mode and SFS (Single Fiber Strand) - Refer to FibroLAN Datasheet -SM options

**Controls (Front Panel DIP Switches)**
Per Channel: FP enable/disable, A/N enable/disable, 10/100 Mbps, HDX/FDX
Per device: Reset, FEF enable disable

## Environmental / Physical

**Power-Supply**
Internal, 100 to 240 VAC, 50-60Hz. IEC connector
-48VDC optional PS

**Operating Temperature**
$0^0$ to $+45^0$ C
Humidity: 10% to 90% non-condensing

**Safety**
UL 60950, EN 60950

**Dimensions / Weight**
Max - 223x150x44mm/1 kg max

**Power Consumption**
15 Watts maximum

**Storage Temperature**
$-20^0$ to $+80^0$

**EMC**
ETSI EN 300 386 V1.3.2;
EN 55022:1998+A1:2000
EN55024:1998+A1:2001;
AS/NZS CISPR 22:04

**Management**
Out-of-Band (RS232/CLI)
In-Band (SNMP management platforms: SNMPc, HP OpenView FibroLAN's ***MetroView*** Management System, etc)

## Ordering Information

| Part# | Model | Description |
|---|---|---|
| **B013** | mS. CON2 | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Duplex SC, Multi-mode, 2Km, 1310nm |
| **B014** | mS. CON2M | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Duplex SC, Multi-mode, 2Km, 1310nm, SNMP managed |
| **B156** | mS.CON2/SMR | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Duplex SC, Single-Mode, 15km, 1310nm |
| **B157** | mS. CON2M/SMR | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Duplex SC, Single Mode, 15km, 1310nm |
| **B158** | mS. CON2M/SMRF13 | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Simplex SC, Single-Fiber-Strand Single Mode, 15km, 1310Tx/1550nmRx |
| **B159** | mS. CON2M/SMRF15 | Compact Dual channel, 10/100Base-TX to 100BaseFX, BMD, Simplex SC, Single-Fiber-Strand Single Mode, 15km, 1550nmTx/1310Rx |
| **B160** | RM2 | 19" Rack shelf for mounting up to 2 mS. CON2 devices |
| **B098** | ETR | Extended Temperature Range ($-10^0$C÷$+70^0$C) |
| **B097** | PS48 | DC (-36VDC÷-72VDC) power supply instead of AC PS |

*Specifications are subject to change w/without prior notice*


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