

# MedIO FTL1218

## 10/100 Base-TX to 100 Base-FX Fiber Converter



### Features

- **Extends 10/100 LAN transmission distance**
  - Up to 20 KM with Single mode fiber
  - Up to 2 KM with Multi mode fiber
- **Supports 10/100 Base-TX auto-negotiation and auto-MDI/MDI-X**
- **Supports Link Fault Pass-Through function**
- **Supports Forward 1600 bytes packet for management function**
- **Built in a watchdog timer to monitor internal switch error**
- **Supports flow control for full and half duplex operation**
- **LED display for LAN link/activity, full/half, 10/100 and Fiber status**
- **Detachable Wall and DIN-Rail mounting kit design**
- **5V terminal block with reverse power protection & DC Jack input**

### Overview

SUNIX FTL1218 is the cost-effective solution for conversion between 10/100Base-TX and 100Base-FX. It is excellent for keeping your industrial automation applications running continuously and specially designed for reliable and stable operation in harsh industrial environments. Using the fiber optic medium for Ethernet application not only extends networks for a long distance but also be immune from electrical and magnetic interference. This converter supports Link Fault Pass-through feature for users easily tracing network link failures, and make it easier to maintain. FTL1218 also has many user friendly features such as optional wall and DIN-Rail mounting tool kit, easy

wiring terminal block, and low power consumption capability, for users to easily implement FTL1218 into their applications or projects. It is the best solution not only for application in critical factory and industrial environment, but also incorporating industrialized and user friendly design.



### Link Fault Pass-Through

Link Fault Pass-Through feature overcomes a problem that when one side of the connection fails, the other side still keeps sending packets to the disconnected side, and waits for responses that would never arrive.

This feature is able to disconnect the connection when any side of the connection fails, allowing the administrator to react promptly to system failures.

### Auto MDI / MDI-X

Auto MDI/MDI-X feature allows users to connect converter's 10/100BaseTX ports to any kind of Ethernet device without paying attention to the

straight-through or cross-over Ethernet cable being used for the connection.

## Specifications

### LAN Communication

|                      |   |
|----------------------|---|
| <b>Standard</b>      | IEEE802.3x & Link Fault Pass-Through                        |
| <b>Connector</b>     | RJ45 10/100 Base-Tx   |
| <b>Communication</b> | 10/100 BASE-TX Full/Half with auto-negotiation and MDI-MDIX |

### Fiber Communication

|                        |  |
|------------------------|--|
| <b>Connector</b>       | 100Base-FX SC Type   |
| <b>Distance</b>        | Single mode Fiber up to 20 KM<br>Multi mode Fiber up to 2 KM |
| <b>Support</b>         | Single mode Fiber 9/125 $\mu$ m                              |
| <b>Cable</b>           | Multi mode Fiber 50/125, 62.5/125, or 10/125 $\mu$ m         |
| <b>Wave length</b>     | Single mode Fiber 1310nm<br>Multi mode Fiber 1310nm          |
| <b>Min. TxD output</b> | Single mode Fiber -15 dBm<br>Multi mode Fiber -20 dBm        |
| <b>Max. TxD output</b> | Single mode Fiber 0 dBm<br>Multi mode Fiber - dBm            |
| <b>Sensitivity</b>     | Single mode Fiber -32 dBm<br>Multi mode Fiber -30 dBm        |

### Power

|                          |  |
|--------------------------|--|
| <b>Input Power</b>       | 5 VDC External Power,<br>Terminal Block & DC Jack type         |
| <b>Protection</b>        | Reverse Power Protection<br>(Protects against V+ & V- reverse) |
| <b>Power Consumption</b> | < 2.5W=5V x 500mA  |

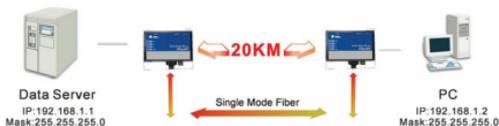
### Mechanical

|                           |                                       |
|---------------------------|---------------------------------------|
| <b>Dimensions (WxDxH)</b> | 189 x 106 x 40 mm (with Mounting Kit) |
| <b>Case</b>               | Metallic Casing & Hard Plastic        |
| <b>Weight</b>             | 250 $\pm$ 5 g                         |
| <b>Approvals</b>          | CE, FCC(Class B)                      |

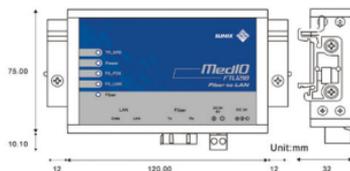
### Environment

|                              |              |
|------------------------------|--------------|
| <b>Operating Temperature</b> | 0°C ~ 60°C   |
| <b>Storage Temperature</b>   | -20°C ~ 85°C |
| <b>Humidity</b>              | 5 ~ 95% RH   |

## Application



## Dimensions



## Order Information

|          |  |
|----------|--|
| FTL1218  | Single-mode 10/100 Base-TX<br>to 100 Base-FX Fiber Converter |
| FTL1218M | Multi-mode 10/100 Base-TX<br>to 100 Base-FX Fiber Converter  |

## Packing List

- 10/100 Base-TX to 100 Base-FX Fiber Converter
- Quick Installation Guide

## Optional Accessories

- Power Adapter 5V / 1A,
- Wall Mount Kit
- DIN-Rail Mount Kit
- Rubber foot stub / Screw

