

This quick start guide describes how to install and use the Industrial Media Converter. This is the Media Converter of choice for harsh environments constrained by space.

## Physical Description

The 100Base-FX connections, Terminal Block and Power Inputs

Model Number:

**HMC-HMT-F1S**

Top Panel



Bottom Panel

**Top panel** — The fiber port(s) for 100Base-FX connections

### The 100Base-FX Connections

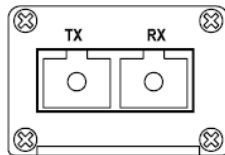
The TX (transmit) port of device I is connected to the RX (receive) port of device II, and the RX (receive) port of device I to the TX (transmit) port of device II.

**X** value:

**A** for Multimode fiber

**B** for Singlemode fiber

| FIBER | Connector            |
|-------|----------------------|
| TX    | SC Optical Connector |
| RX    | SC Optical Connector |

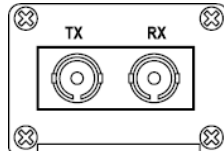


**X** value:

**G** for Multimode fiber

**H** for Singlemode fiber

| FIBER | Connector            |
|-------|----------------------|
| TX    | ST Optical Connector |
| RX    | ST Optical Connector |



### The WDM 100Base-FX Connections

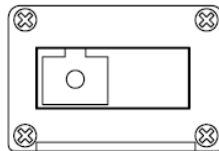
Only one single-mode optical fiber is required to transmit and receive data.

**X** value:

**C and D** for Multimode fiber

**H and F** for Singlemode fiber

| FIBER | Connector            |
|-------|----------------------|
|       | SC Optical Connector |

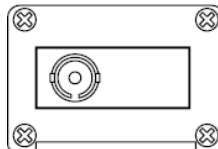


**X** value:

**I and J** for Multimode fiber

**K and L** for Singlemode fiber

| FIBER | Connector            |
|-------|----------------------|
|       | ST Optical Connector |



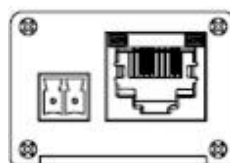
**Bottom panel** — Ethernet Port and Power Input

#### Ethernet Port

| NETWORK | RJ45 Connector |
|---------|----------------|
|---------|----------------|

#### Power Input Assignment

| 12VDC | 1 | GND | Terminal Block |
|-------|---|-----|----------------|
|       | 2 | 12V |                |

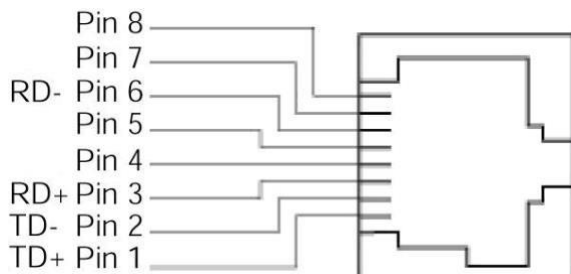


\*There will be no “TX” and “RX” in single fiber condition.

## Interface

### The 10/100Base-TX Connections

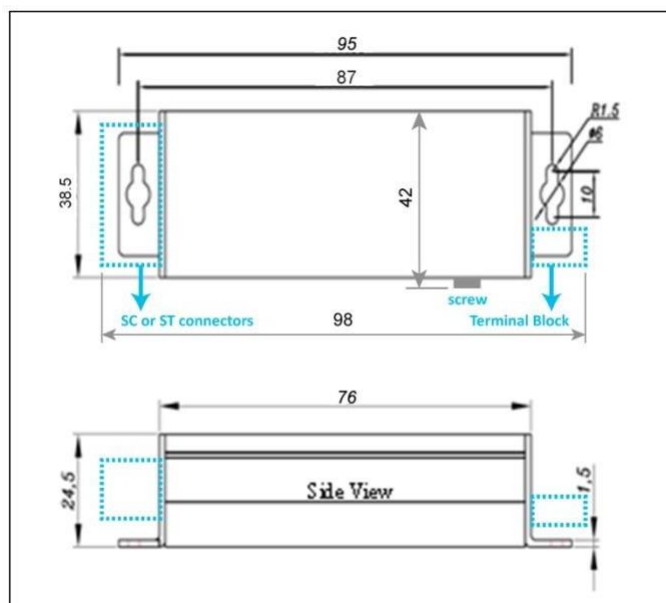
The following lists the pinouts of 10/100Base-TX ports.



| Pin | Regular Ports          | Uplink Port            |
|-----|------------------------|------------------------|
| 1   | Output Transmit Data + | Input Receive Data +   |
| 2   | Output Transmit Data - | Input Receive Data -   |
| 3   | Input Receive Data +   | Output Transmit Data + |
| 4   | NC                     | NC                     |
| 5   | NC                     | NC                     |
| 6   | Input Receive Data -   | Output Transmit Data - |
| 7   | NC                     | NC                     |
| 8   | NC                     | NC                     |

### The Port Status LEDs, dimension drawing for the Micro unit

| LED      | State    | Indication  |
|----------|----------|---|
| PWR      | Green    | Power on.   |
|          | Off      | Power off.  |
| FX SPD   | Green    | 100Base-FX  |
|          | Off      | 10Base-FX   |
| FX LINK  | Steady   | A valid network connection established                      |
|          | Flashing | Transmitting or receiving data.<br>ACT Stands for Activity. |
| SPD      | Yellow   | 100Base-TX  |
|          | Off      | 10Base-TX   |
| LINK/ACT | Steady   | A valid network connection established                      |
|          | Flashing | Transmitting or receiving data.<br>ACT Stands for Activity. |



## Functional Description

- Converts 10/100Base-TX to 100Base-FX
- Full/Half duplex, Auto-Negotiation
- Singlemode or Multimode fiber operation
- Single or Dual-core fiber with SC or ST connectors
- MDI/MDI-X Auto-Crossover supported
- Sleek Microtype design, fits within most camera housing
- Plug-and-Play
- 12VDC Terminal Block Power inputs
- -10°C to 60°C (14°F to 140°F) operating temperature.

## Assembly, Startup, and Dismantling

### Installation

- Installation: Mount the Micro-type unit onto a fixture, or camera housings, e.g. a plank, (either on the wall or on a flat surface) with at least 2 screws piercing through the holes on the mounting frame to secure it in position.
- Startup: Connect the supply voltage to start up the Media Converter via the terminal block.
- Dismantling: Locate and remove the securing screws. Usually, but not limited to, at least 2 screws.