# SIGNAMAX

## NETWORK
## SOLUTIONS

**Quick Start Guide**

I-1100 Series Media Converters

## Warnings and Cautionary Messages

**Warning:** This product does not contain any serviceable user parts.

**Warning:** Installation and removal of the unit must be carried out by qualified personnel only.

**Warning:** This media converter uses lasers to transmit signals over fiber optic cable. The lasers are compliant with the requirements of a Class 1 Laser Product and are inherently eye safe in normal operation. However, you should never look directly at a transmit port when it is powered on.

**Warning:** When selecting a fiber SFP device, considering safety, please make sure that it can function at a temperature that is not less than the recommended maximum operational temperature of the product. You must also use an approved Laser Class 1 SFP transceiver.

**Caution:** Only service the input power wires when no power is being supplied. Always connect the wires and tighten the screws before providing power to the power supply.

**Caution:** Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

**Caution:** Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

**Caution:** Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

| Part Number | RJ-45 Ports | PoE Ports | Fiber Ports |
|---|---|---|---|
| MI10010 | 2 Gigabit | 2 | 2 SFP |
| MI10020 | 2 Gigabit | N/A | 2 SFP |
| MI10031 | 2 10/100 | 2 | SC/MM |
| MI10041 | 2 10/100 | 2 | SC/SM |
| MI10051 | 2 10/100 | N/A | SC/MM |
| MI10061 | 2 10/100 | N/A | SC/SM |

DIN-Rail Mounting Kit - one bracket and three screws.

Documentation—Quick Start Guide (this document) and Warranty Card

**Note:** Additional documentation can be obtained from **www.signamax.com**

## Mount the Media Converter



**1.** Screw the DIN-Rail bracket to the media converter.

**2.** Insert the top of the DIN-Rail bracket to the DIN-Rail track.

**3.** Pull down the DIN-Rail bracket to the DIN-Rail track and check if it is mounted tightly on the DIN-Rail track.

## Ground the Media Converter

**1.** Ground the device using the ground point in the terminal block and chassis grounding screw (available only on certain models). Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.

**2.** Use a #12 AWG (PoE converter) or #18 AWG (non-PoE converter) minimum grounding wire (not provided), and connect it to the grounding point on the converter terminal block or chassis screw. Then connect the other end of the wire to ground.

**Note:**
**1.** Polarities must match.
**2.** Dual power inputs are available for redundancy but only one power input is required for fully functionality.
**3.** PoE models require 48-57VDC for PoE functionality to work. Non-PoE models can function on 12-57VDC.

## Connect Power
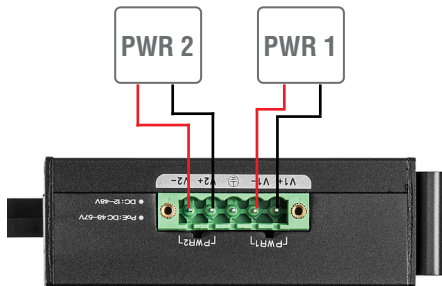


**1.** Insert the positive and negative wires into the PWR1 (+,-) and/or PWR2 (+,-) on the terminal block connector (only one power supply is required).

**2.** Tighten the screws to prevent the wires from loosening.

## Verify Media Converter Operation

**1.** Verify basic converter operation by checking the system LEDs. When operating normally, the Power LED should be on and green.

## Connect Network Cables

**1.** For RJ-45 ports, connect 100-ohm Category5, 5e or better twisted-pair cable

**2.** For SFP models, first install SFP transceivers and then connect fiber optic cabling to the transceiver ports. The following transceivers are supported:

1000BASE-SX (065-79SXMG-H)

1000BASE-LX (065-79LXMG-H)

100FX Multimode(AS11010)

100FX Singlemode(AS11020)

**3.** For fixed fiber models, insert the SC connector fiber into the fixed fiber port.

**4.** As connections are made, check the port status LEDs to be sure the links are valid. See the LED description table on the next page.

| LED | Status | Description |
|-----|--------|-------------|
| PWR | ON | Media converter operating normally. |
| | OFF | No DC power is connected or the media converter has failed. |
| LINK | ON | Port has a valid link |
| | BLINKING | Port has network activity |
| | OFF | The link is down |
| PoE | ON | A PoE device is connected and delivered PoE power |
| | BLINKING | PoE Error: short circuit or current overload |
| | OFF | Doesn't deliver PoE power |

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