EMSYS

Mini Gateway
Installation Guide

V1.0 – February 7, 2023

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Preface

Copyright Notice

The material in this document is the intellectual property of EMSYS Design Inc. We take every care in the preparation of this document, but no guarantee is given as to the correctness of its contents. Our products are under continual improvement and we reserve the right to make changes without notice.

Upgrade and Warranty

Parts of this product or product as a whole may be upgraded or replaced per customer's request by EMSYS or local distributer personnel only. To learn more about upgrade limitation, please refer to the specification in the Installation's Manual. For any further information about the product customer purchased, please contact the local dealer. Do not attempt to upgrade or replace any component of the product without consulting EMSYS technical support first if you are not an authorized dealer or service center, since it may cause the warranty void. It is strongly recommended that you contact the authorized local distributer for any upgrades or replace requests.

Technical Support

If a problem arises with your system and no solution can be obtained from the installation's manual, please contact your local distributor of EMSYS Design products. Alternatively, contact EMSYS Design LLC technical support. Information about how to reach technical support can be obtained on www.emsys-design.com

Safety Instructions

- Always read the safety instructions carefully.

- Keep this Installation Guide for future reference.

- Keep this equipment away from humidity.

- Make sure that the input power voltage is within its safety range and has been adjusted properly

- before connecting the equipment to the power inlet.

- All cautions and warnings on the equipment should be noted.

- Never pour any liquid into the opening that could damage or cause electrical shock.

- If any of the following situations arises, get the equipment checked by service personnel:

  - Liquid has penetrated into the equipment.

  - The equipment has been exposed to moisture or rust.

  - The equipment does not work well or you cannot get it work according to the Installation Guide.

  - The equipment has been damaged.

  - The equipment has obvious sign of breakage.

Personal Protective Equipment

Respecting the personal protective requirements of the facility, always use the following equipment during the installation:

- Insulated Tools

- Insulated Rubber Gloves

- Long sleeve and long trouser leg, natural fiber clothes

- Hard Hat with a face shield

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if it's not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other wireless devices, which can be determined by turning the equipment off and on, the customer should consult the dealer or EMSYS Design technical support for help.
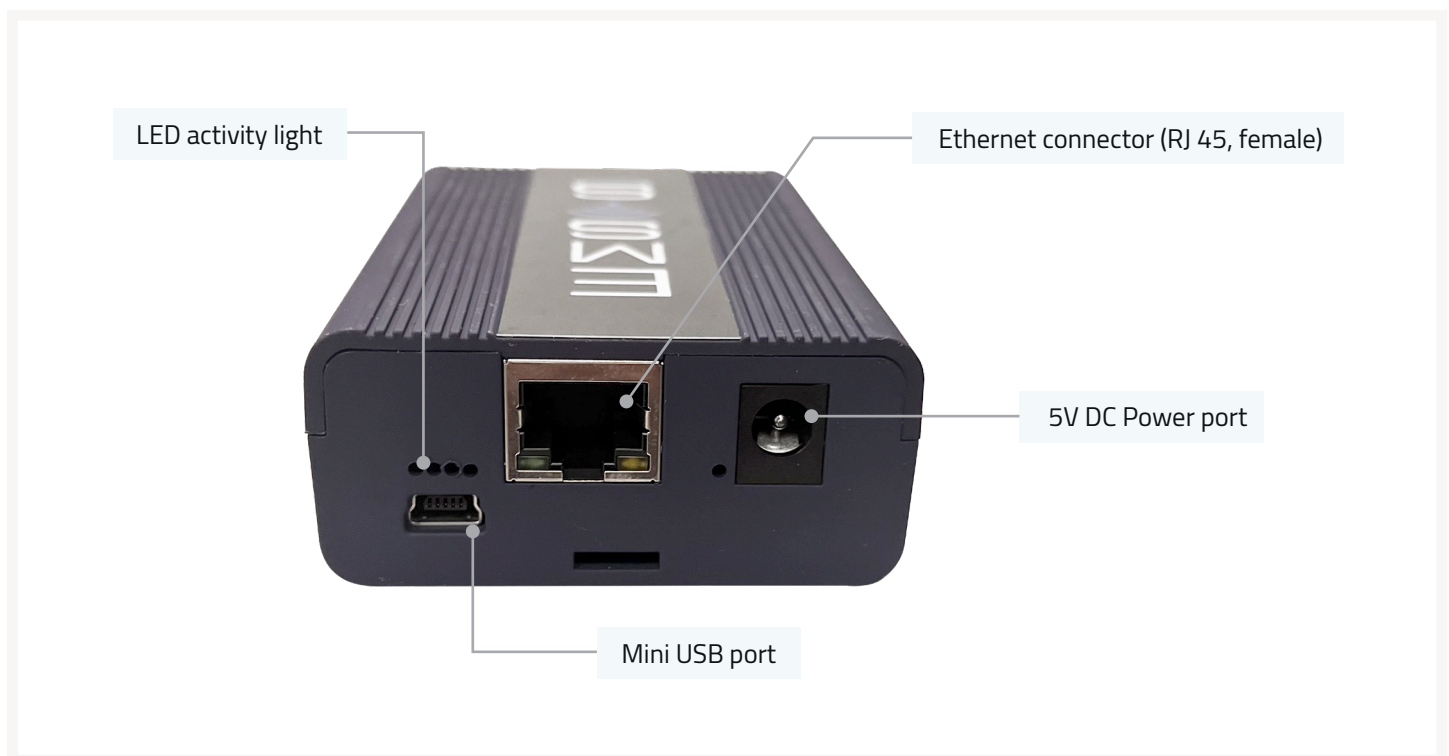
DISCLAIMER

EMSYS Design LLC is not responsible for damage arising from failure to follow instructions relating to product's installations and use.

Overview

EMSYS Mini Gateway is a small, compact device with a built-in transceiver which collects sensor readings and pushes them to other/central Gateways via UDP protocol. It can also forward user commands originated on the central Gateway to sensors.

Mini Gateway

LED activity light

Ethernet connector (RJ 45, female)

5V DC Power port

Mini USB port

Installation Tools and Materials

The following tools and materials are not provided by EMSYS Design but are necessary for the successful installation of the Mini Gateway:

- Drill, screw anchors and screws - to fix the DIN trail to a wall/ceiling/column
- Ethernet cable - to provide network access to the Mini Gateway
- Depending on the power option:
    - POE splitter with 5VDC output
    - POE injector

SRV-1100 Box Content

SRV-1100 Mini Gateway

USB power
adapter

USB cable
(regular-to-mini USB)

DIN rail

Installation Procedure

Mini Gateway can be powered through the Mini USB port or through the 5VDC power port.

Installation Procedure using mini USB port

1 Power the Mini Gateway by connecting the mini USB to the mini Gateway

2 Connect the Ethernet cable into the Mini Gateway's Ethernet port

3 Validate that the blue LED is on.

Installation Procedure - PoE switch/router

PoE Splitter

Ethernet

Ethernet with PoE

Power

1 Connect the PoE enabled Ethernet cable into the female LAN port of the PoE splitter.

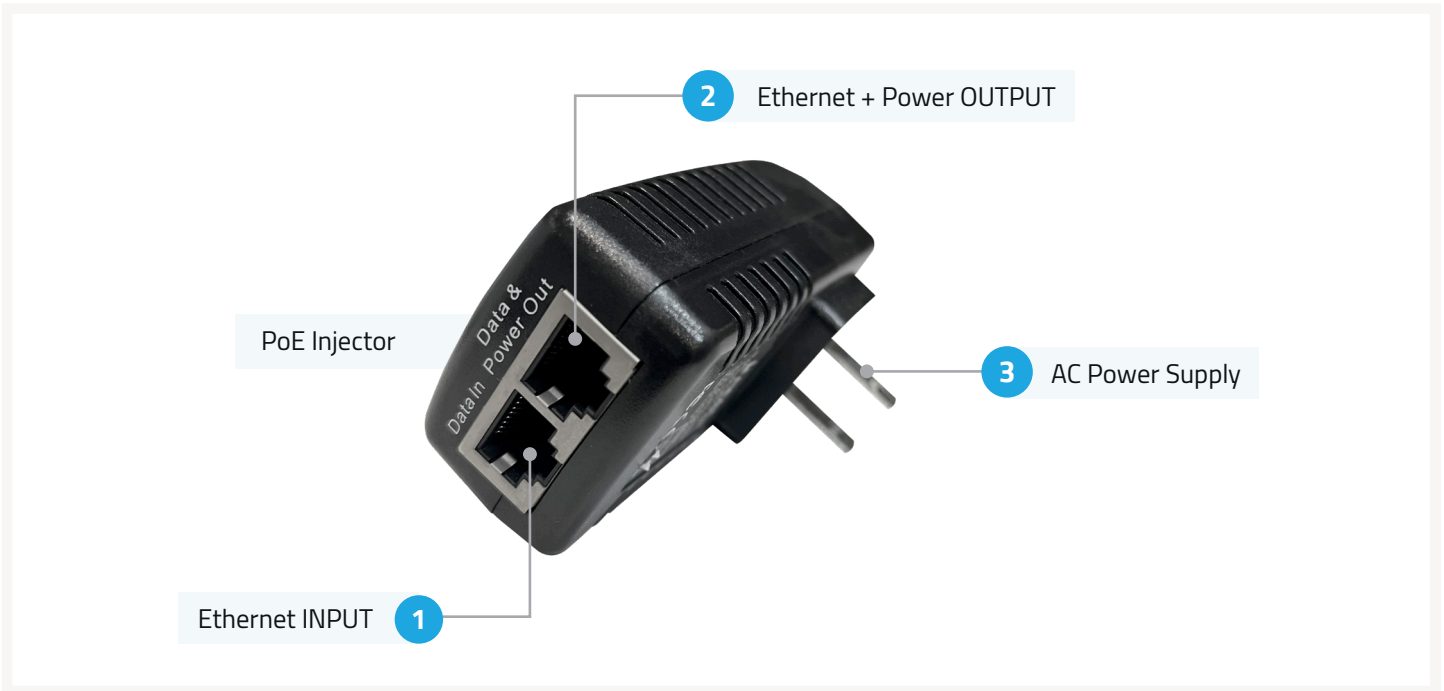**2** Connect the male LAN connector and the power connector to the Mini Gateway's Ethernet and power connector.

3 Validate that the blue LED is on.

Installation Procedure - PoE switch/router

PoE Injector

2 Ethernet + Power OUTPUT

3 AC Power Supply

Ethernet INPUT **1**

1 Connect the Ethernet cable from the network Switch/Router to the LAN input port of the PoE injector.

2 Connect one end of an Ethernet cable (intended for the injector-splitter connection) to the PoE output.

3 Connect the PoE injector to the AC power supply.

PoE Splitter

Ethernet

Ethernet with PoE

Power

4 Connect the other end of the Ethernet cable (intended for injector-splitter connection) into the female LAN port of the PoE splitter.

5 Connect the male LAN connector and the power connector to the Mini Gateway's Ethernet and power connector

6 Validate that the blue LED is on.

Support and Troubleshooting

If you encounter any problem, please ensure you have correctly followed the steps in this Installation Guide. If the problem persists, please feel free to contact EMSYS Design LLC any time:

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