

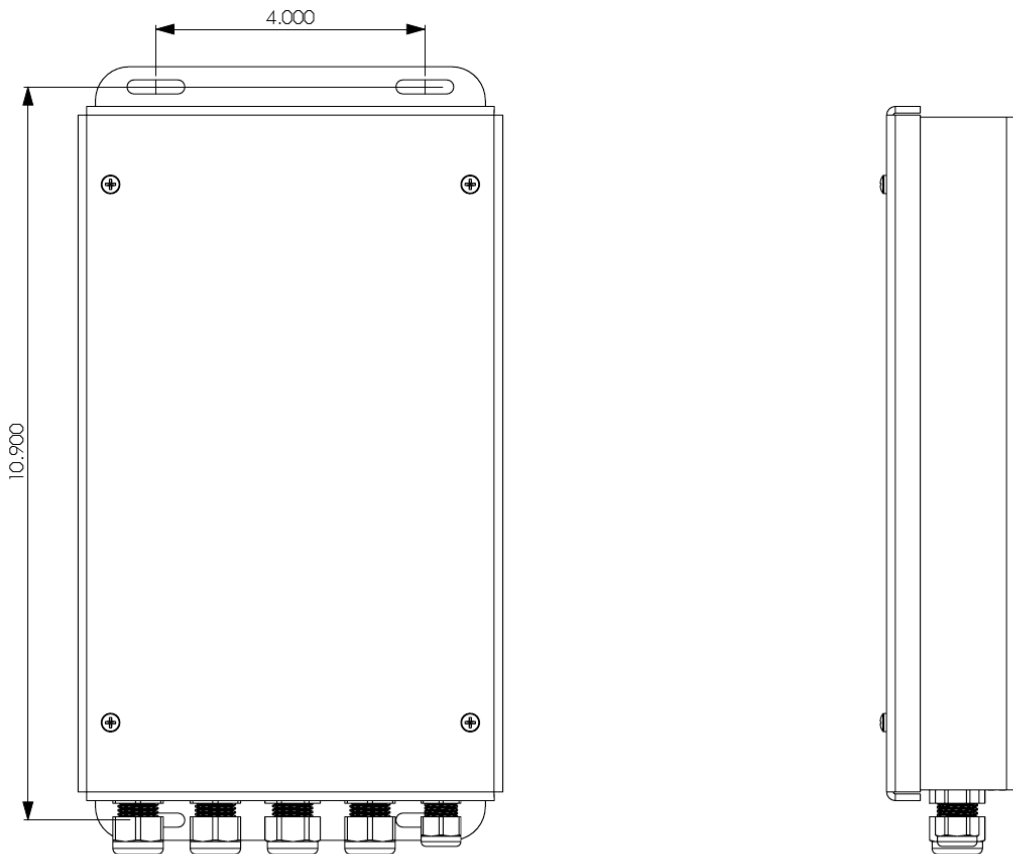
## I. Introduction

This Quick Installation Guide provides instructions for installation of the **WEBS-CM-2 Communications Module**. The **WEBS-CM-2** can be installed in the WEBS-MT/R, WEBS-WM, WEBS-PM, WEBS-RETRO mounts or as a communications module to third-party systems. It is recommended to read this instruction set completely before starting any installation.

## II. Contents

Please ensure receipt of each of the included **WEBS-CM-2** components:

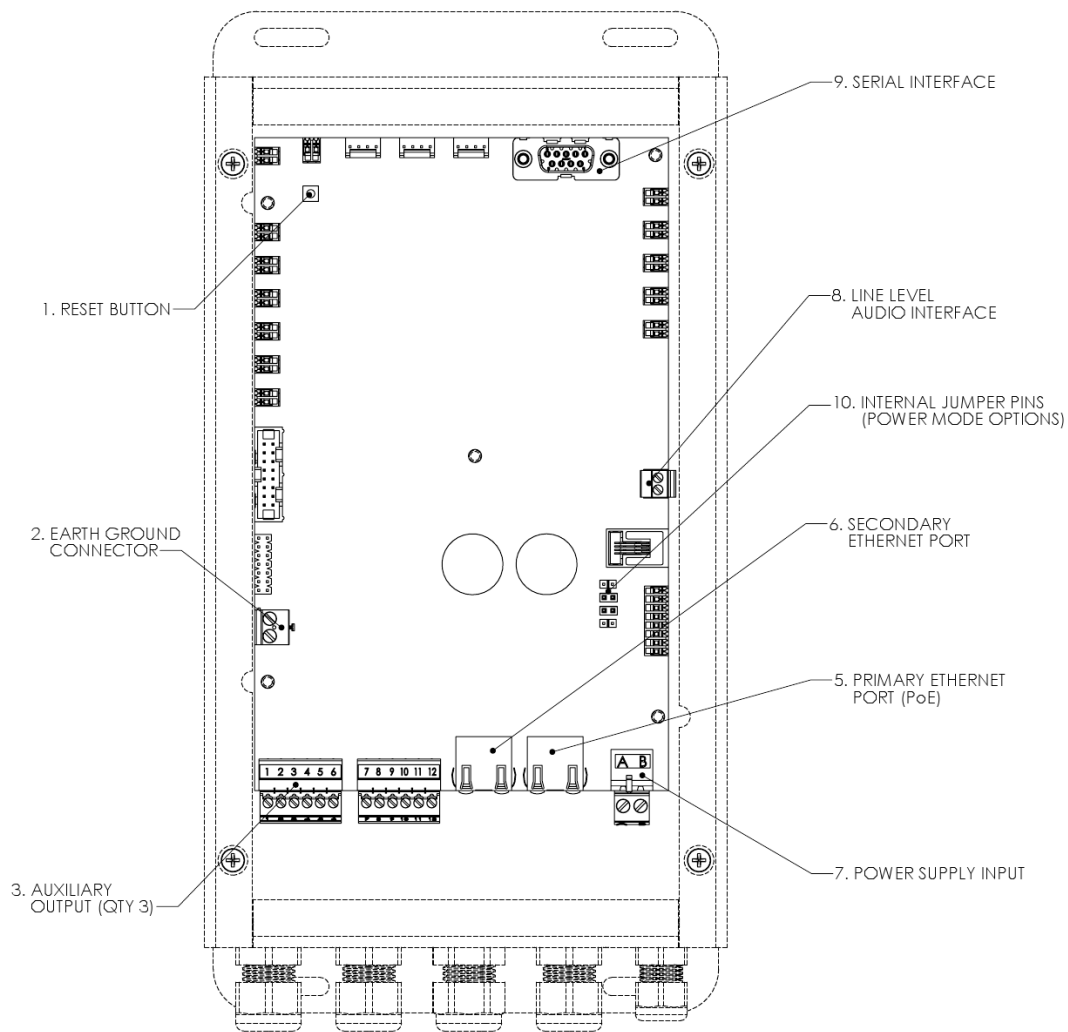
QTY	Part Number	Description
1	WEBS-CM-2	WEBS-CM-2 Communications Module
4	67510	PG-9 Liquid-tight Cord Grips
1	67511	PG-7 Liquid-tight Cord Grips
1	86392	Ferrite Core



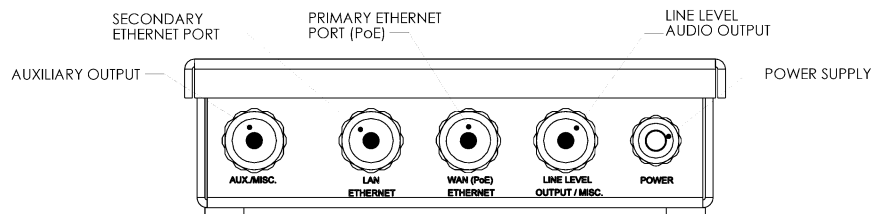
**Figure 1 – Front / Side view of a WEBS-CM-2**

### III. Field Wiring Installation

1. If pre-installed in another enclosure, remove and set aside the **WEBS-CM-2** assembly.
2. Remove the cover from the **WEBS-CM-2** assembly by unfastening the four (4), #6-32 Phillips head screws.
3. For PCB (Printed Circuit Board) wiring details, refer to **Figure 2**.



**Figure 2 - Internal PCB (Printed Circuit Board) view**



**Figure 3 - Bottom view**

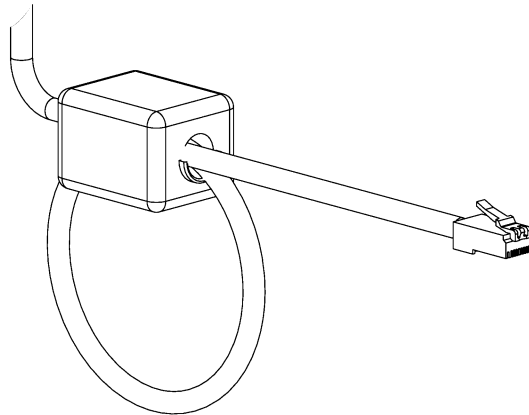
#### IV. Network Connectivity

The **WEBS-CM-2** is equipped with two (2) Ethernet ports. The WAN Ethernet (PoE) port should be used as the primary port for data communications. The WAN Ethernet port can be used to power the phone via an IEEE 802.3af, Class 3 compliant PoE supply.

The **WEBS-CM-2** has a layer 2 switchport labeled LAN Ethernet which can provide network connectivity to an auxiliary device e.g. (IP Camera, Card Reader, etc). The LAN Ethernet port is a pass-through port and cannot be used to access the phone.

When installing the Network cable, it is essential to have a ferrite core (provided with the unit), installed on to the cable as close as possible to the connector. Make sure the network cable is passed twice through the ferrite core, forming a loop of not less than one (1) inch in diameter.

*A cable with a rating of Cat5e or higher with an RJ45 connector is typical for all network cables.*



**Figure 4** - Installation of the ferrite core on the network cable

#### V. Power Requirements

The **WEBS-CM-2** can be powered over Ethernet or through a dedicated, line-regulated power supply that meets the following specifications:

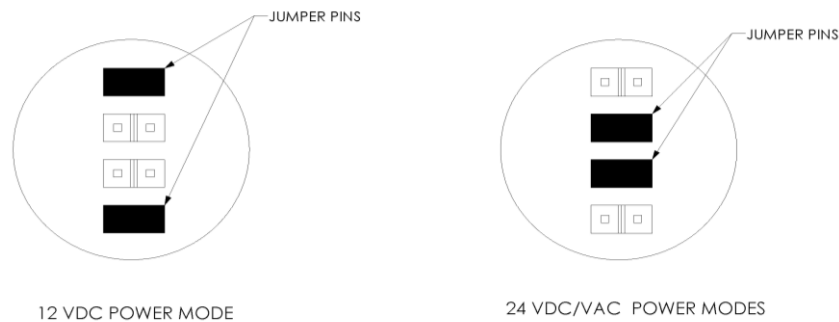
Power Input	Description	Acceptable Voltage	Power Consumption
Ethernet WAN	PoE – IEEE 802.3af Class 3	+36-57 VDC	150 mA
Power Supply Input	12 VDC	+10-14 VDC	500-800 mA
Power Supply Input	24 VDC	+21-27 VDC	300-500 mA
Power Supply Input	24 VAC	+21-27 VAC	300-500 mA

## VI. Power Installation

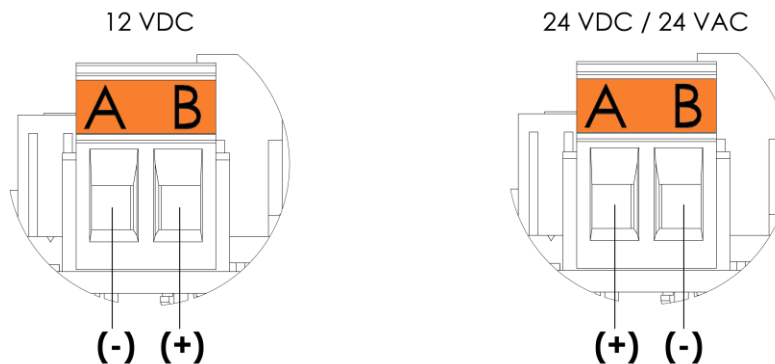
**Power over Ethernet:** Connect the Ethernet cable (Power + Data) to the WAN Ethernet port on the PCB as shown in **Figure 2**.

**Local Power:** For 12 VDC power mode place the internal jumpers on the two outermost terminals as shown in **Figure 4**. Once the jumpers are correctly set, connect the power supply to the Power Supply Input using a two conductor, No. 24 to 12 AWG cable as shown in **Figure 5**. For 12 VDC, ensure the Negative supply is connected to terminal **A**, and the Positive supply is connected to terminal **B**.

For 24 VDC/VAC power modes, place the internal jumper on the two innermost terminals as shown in **Figure 4**. Once the jumpers are correctly set, connect the power supply to the Power Supply Input using a two conductor, No. 24 to 12 AWG cable as shown in **Figure 5**. For 24 VDC/VAC, ensure the Positive supply is connected to terminal **A**, and the Negative supply is connected to terminal **B**.



**Figure 4** - Internal Jumper position for external power modes.  
Phone default setting is 24 VDC/VAC.



**Figure 5** – Power Supply Input connection polarity

**VII. Earth Ground**

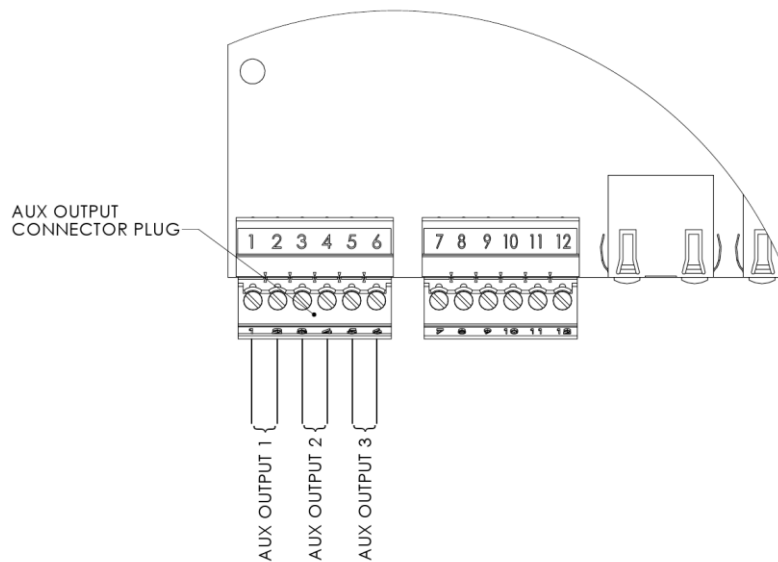
The **WEBS-CM-2** must be connected to earth ground. Install a #10 ring terminal to the ground wire before connecting it to earth ground as shown in **Figure 2**.

**VIII. Auxiliary Input / Output**

1. The **WEBS-CM-2** has three (3) Auxiliary Outputs (dry contact, 120 mA @ 120 VAC/DC). Auxiliary Outputs allow peripheral equipment such as strobe lights, PTZ cameras, door entry systems, etc. to be activated during a page from WEBS Contact®.
2. A removable 6-pin connector plug is provided for the auxiliary output as shown in the **Figure 7**.
3. The Auxiliary Output connections are as follows:

Auxiliary Output Connection	Connector Plug Pin Position
Aux. Output 1	Position 1 and 2
Aux. Output 2	Position 3 and 4
Aux. Output 3	Position 5 and 6

*Use a two conductor, No. 28 to 16 AWG cable size for all auxiliary connections.*



**Figure 6 - Auxiliary Output connectors**

## X. Line Level Audio

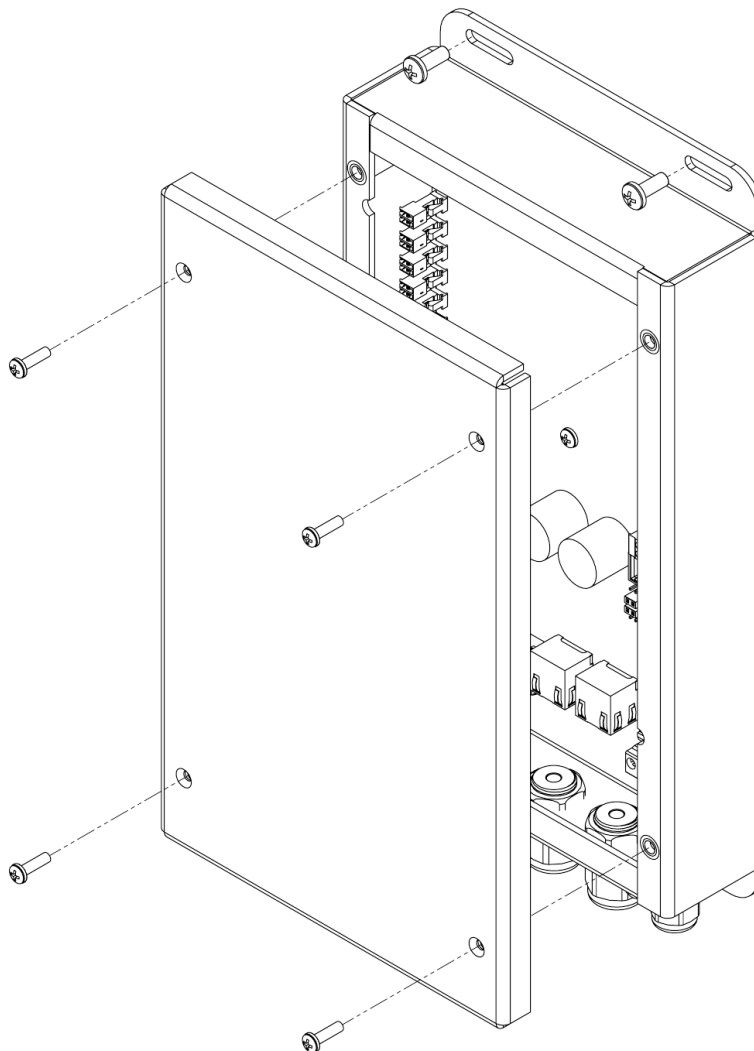
Connect the Line Level Audio connector on the PCB as shown in the **Figure 2**, to the respective device on the other end, such as the WEBS<sup>®</sup> paging amplifier, recording device, speaker, etc.

## XI. Final Assembly

After completing the field wiring installation, fasten the enclosure cover on the enclosure with the four (4), #6-32 Phillips head screws.

**NOTE:** It is the installer's obligation to ensure that the wiring should pass through the cable entry hole at the bottom of the enclosure. Please exercise caution when reinstalling the enclosure cover and ensure that no cables are crushed during the process.

Install the **WEBS-CM-2 Communication Module** into its appropriate mount (e.g. **WEBS-MT/R**, as shown in **Figure 7**), with four (4) #6-32 Phillips head screws.



**Figure 7 - Installation of a WEBS-CM-2**