I. Introduction

The **ETP-CI-4G-GSM** is used in conjunction with an ETP-500 Series ADA-compliant, hands-free Emergency Phone.

IMPORTANT NOTE: Programming of the ETP-500 Series Phones cannot be done through a remote call to the ETP-CI-4G-GSM Cellular Interface. For programming, an ETP-500 Series Phone must be connected directly to a standard analog phone line connection.

II. Prerequisite Cellular Service Requirements

Prior to installation and setup, the **ETP-CI-4G-GSM** Cellular Interface has the following perquisite requirements:

(1) 4G Voice over LTE service from a local cellular service provider that supports GSM (e.g. AT&T, T-Mobile);
(2) An activated micro-SIM (3FF) card provided by the local cellular service provider.

III. Contents

Before beginning installation, make sure you have all the included components. The **ETP-CI-4G-GSM** includes:

Qty.	Part Number	Description
1	68746	ETP-CI-4G-GSM Cellular Interface
1	160-00049	MIMO antenna kit (includes antenna with built-in cable assembly)
2	4247	8-32 x 1/2 BH Screw
2	4248	8-32 x 5/16 Hex Nut
2	42767	#10 External Lock Washer

IV. Installing the Antenna

The **ETP-CI-4G-GSM** Cellular Interface includes a remote-mounting MIMO antenna. The remote-mounting MIMO antenna should be attached to the Talk-A-Phone enclosure (e.g., ETP-MTE-W, ETP-MT/R-SOLAR, ETP-MT/R-PCS, etc.) via the built-in antenna mounting hole. To install the remote-mounting MIMO antenna, please follow the separate antenna mount instructions included with the remote-mounting MIMO antenna.
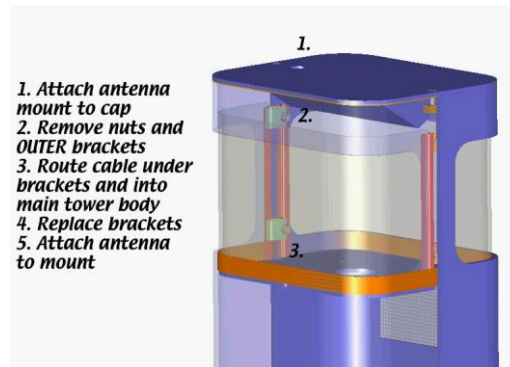

Figure 1. An example of mounting the remote-mounting MIMO antenna onto the cap of an ETP-MT/R-PCS tower.

The remote-mounting MIMO antenna will be connected to the **ETP-CI-4G-GSM** Cellular Interface through the ports listed in **Section V.2**.

V. Installing the Cellular Interface

1. The front panel of the **ETP-CI-4G-GSM** Cellular Interface provides the following:

   (1) Cellular signal strength indicator;
   (2) LED indicators for *POWER*, *STATUS, CELL*, and *GPS*;
   (3) *DATA* port reserved for future use;
   (4) *MODE* button reserved for future use;
   (5) *RESET* button for rebooting the cellular interface;
   (6) *PHONE-FXS* port for connecting to an ETP-500 Series Phone.

Figure 2. Front panel of the **ETP-CI-4G-GSM** Cellular Interface.

2. The rear panel of the **ETP-CI-4G-GSM** Cellular Interface provides the following:

    (1) Input terminal for 12VDC;
    (2) *CELL 1* connector for remote-mounting MIMO antenna;
    (3) *CELL 2* connector for remote-mounting MIMO antenna;
    (4) *GPS* connector for remote-mounting MIMO antenna;
    (5) *SIM* slot for micro-SIM (3FF) card;
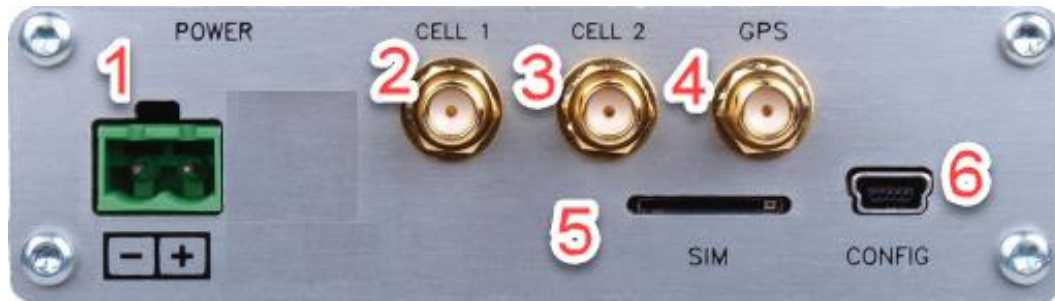   (6) *CONFIG* port for a mini-USB connection (for Talkaphone Technical Support purposes only).

Figure 3. Rear panel of the **ETP-CI-4G-GSM** Cellular Interface.

3. Insert the micro-SIM (3FF) card into the slot labeled *SIM* (see *Figure 3 – Item 5*).

    IMPORTANT: The orientation of the micro-SIM card should be angled notch entering the slot first with the metal contacts facing down toward the mounting flanges.

4. Using a plastic spudger or a small flat head screwdriver, push the micro-SIM card into the slot until a click is heard. To remove the micro-SIM card, push the card until a click is heard and the card springs out of the slot.

5. Connect the cables from the remote-mounting MIMO antenna to the *CELL 1, CELL 2,* and*, GPS* connecters (see *Figure 3 – Items 2, 3, and 4*. On the built-in cable assembly of the remote-mounting MIMO antenna, there are two (2) cables labeled *CELL* – connect those cables to the *CELL 1* and *CELL 2* connectors. Any of the two *CELL* cables can connect to either connector.

6. Connect the ETP-500 Series Phone to the *PHONE-FXS* port.

7. If the interface is being powered by an SLR Series (solar) kit, connect the *LOAD* terminals of the solar controller to the appropriate polarity markings on the *POWER* terminal (12VDC input) of the **ETP-CI-4G-GSM** Cellular Interface. Otherwise, connect a 12VDC power source appropriately with respect to polarity.

8. Using the built-in mounting flanges, attach the **ETP-CI-4G-GSM** Cellular Interface onto the internal mounting panel of the Talk-A-Phone enclosure (e.g., ETP-MTE-W, ETP-MT/R-SOLAR). The **ETP-CI-4G-GSM** Cellular Interface should be mounted so that the 12VDC input terminal is on the lower right corner (i.e. toward the Earth).
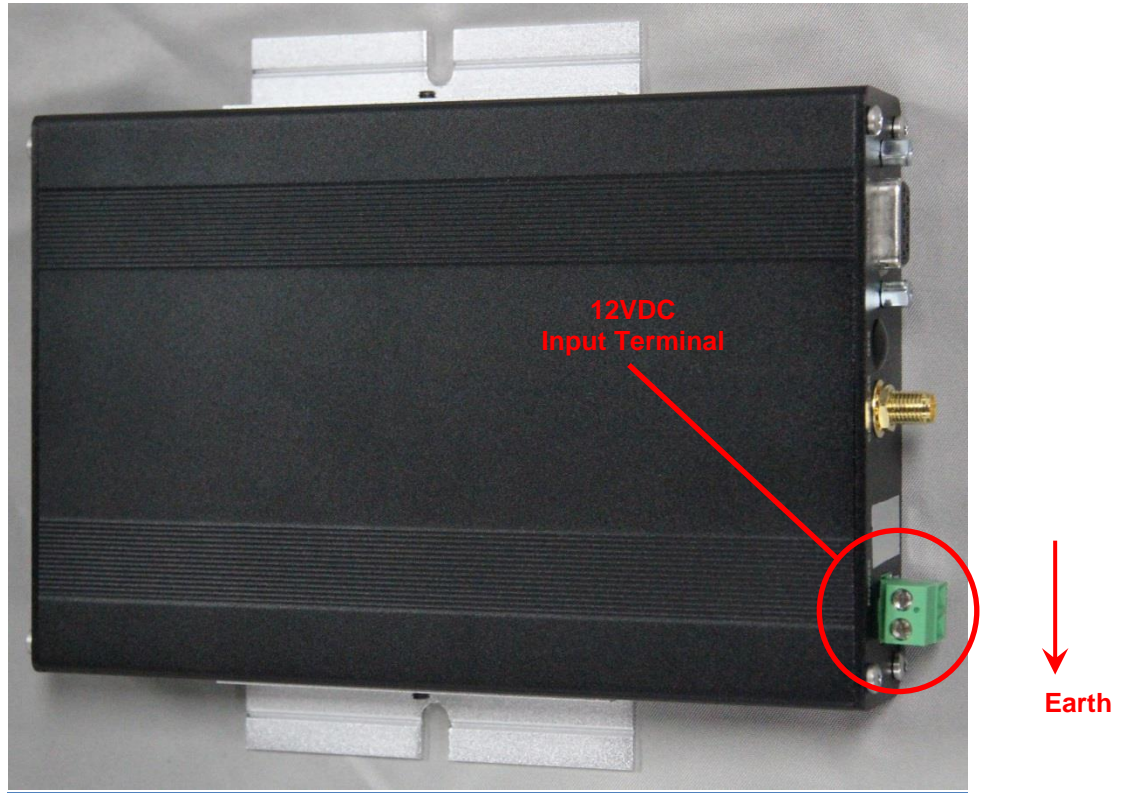
Figure 8. This photo illustrates the appropriate orientation and mounting position for the ETP-CI-4G-GSM Cellular Interface.

VI.   Activation of Cellular Service

Select a local cellular service provider that supports 4G LTE GSM (e.g., AT&T, T-Mobile) and 4G voice over LTE service. Per the aforementioned installation instructions, install an activated micro-SIM card provided by the local cellular service provider into the **ETP-CI-4G-GSM** Cellular Interface.

VII.   Programming the ETP-500 Series Phone

The ETP-500 Series Phone requires specific programming for operation with the **ETP-CI-4G-GSM** Cellular Interface. At minimum, the ETP-500 Series Phone should be programmed with the following codes:

```
* 4 **
* 13 * <Phone_Number_to_Dial> *
* 14 * 1 *
* 18 * 5 *
* 24 * 0 *
* 27 * 0 *
* 55 *
* 56 *
* 58 * <Speak_to_Record_Voice_Message>(optional)
```

For a full comprehensive list of programming codes, reference the Installation & Operation Manual for Emergency/Information Phones.