



# Cellular Electronic Logbook (cELB) Quick Start Installation Guide

## Before You Begin

**We strongly encourage selected permit owners to have the cELB professionally and permanently installed by a qualified (licensed) electrician.**

The cELB is a sensitive piece of electronic equipment. Poor grounding and other electrical issues may result from improper installation. Replacement of a damaged device is the responsibility of the permit owner. If these instructions need clarification, please contact [Galv.ELB.Program@NOAA.gov](mailto:Galv.ELB.Program@NOAA.gov)

## What's in the Box

Check to make sure that you have all of these parts.

For replacement of missing parts, immediately email [Galv.ELB.Program@NOAA.gov](mailto:Galv.ELB.Program@NOAA.gov)



**MultiConnect™  
Modem (cELB)**  
*(Part no. MTCDP-  
EV2-GP-N3-1.0)*



**Pelican  
Case™ with  
foam insert**



**AC Power  
supply cord**  
*(Part no. PS-9VCB-  
LBC-U-NAM)*



**DC Power  
supply cord**  
*(Part no. FPC-  
532-DC)*



**Antenna with 10 meter dual cables/ connector/ magnetic mount**  
*(Part no. AU-4S-LTE/ 10m NT100/ SMA(SP))*



The following items are pre-installed in the cELB.  
**DO NOT ATTEMPT TO REMOVE THEM.**



**2 GB Secure Digital (SD)  
Card - Industrial**



**4GB FLASH  
DRIVE USB 2.0**  
*(Part no. INGRAM  
SKU GB3327)*

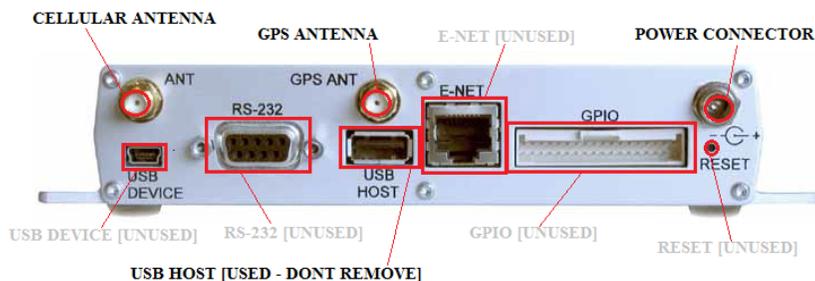


Figure 1. Cellular Electronic Logbook (cELB) rear display.

**CELLULAR ANTENNA (ANT)** – Connect antenna cable labeled 'RF' here.

**GPS ANTENNA (GPS ANT)** – Connect antenna cable labeled 'GPS' here.

**USB HOST** – A 4GB thumb drive is installed. **DO NOT REMOVE OR REPLACE.**

**POWER CONNECTOR** – Attach screw connector from power cord here.

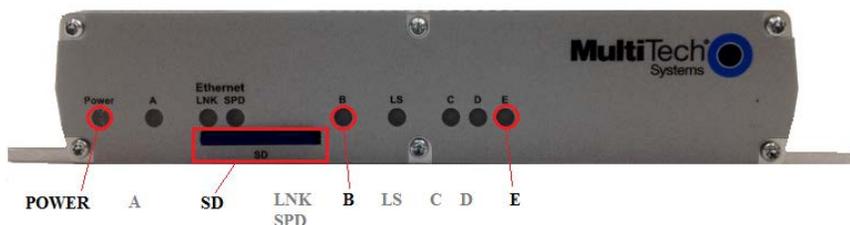


Figure 2. Cellular Electronic Logbook (cELB) front display.

**POWER** – The POWER LED will turn green indicating the cELB is receiving power.

**SD** – The SD memory slot will have a 2GB industrial SD 1.0 flash memory chip installed. **DO NOT REMOVE OR REPLACE THIS MEMORY CHIP.**

**B** – The 'B' LED will activate when the cELB has acquired a valid GPS position.

**E** – The 'E' LED will turn green at the start of communication. After the process completes, the LED will strobe fast if successful and slow if unsuccessful.

<b>1</b>	<b>Identify Power Source</b> <u>Either:</u>	
	AC Power	<b>ATTENTION:</b> Device rated for 120V AC with provided adapter.
	DC Power	<b>ATTENTION:</b> Device rated to operate on a range of DC voltages between 9-28V. <ul style="list-style-type: none"> <li>Verify that the voltage from battery is within these limits. <b>IF BATTERY IS GREATER THAN 28V, ADD A STEP DOWN DC-TO-DC CONVERTER.</b></li> <li>Black wire with red stripe is connected to positive battery terminal; solid black to negative terminal.</li> </ul>
	<ul style="list-style-type: none"> <li>cELB should be located within 5 feet of AC outlet or DC power.</li> <li>Distance can be extended with an extension cord.</li> </ul>	
<b>ATTENTION: Sensitive electronic equipment. Take care to insulate it from severe power fluctuation.</b>		

<b>2</b>	<b>cELB Modem Installation</b>
	<ul style="list-style-type: none"> <li>A Pelican Case™ is provided to house the cELB.</li> <li>The case and cELB unit have holes on the bottom for mounting in the wheelhouse of the vessel.</li> <li>The back of the case has three holes (for power connector, GPS antenna, and RF antenna).</li> <li>It is recommended that silicon is applied to protect water from penetrating through these openings after connecting power and antenna cables.</li> </ul>
	Protect the device from water and severe vibration.

<b>3</b>	<b>Antenna Installation</b> (see Figure 1 for cable connections)
	cELB must be installed within ~30 feet (10 meters) of antenna base installation. Contact <a href="mailto:Galv.ELB.Program@NOAA.gov">Galv.ELB.Program@NOAA.gov</a> for purchase information if a longer cable is needed.
	Install antenna base with <b>black side to sky</b> in a location that has a clear unobstructed view of the sky <i>i.e.</i> , on top of the wheelhouse. <b>DO NOT place anything near or on top of antenna base.</b>
	Antenna has a magnetic mounting base; however, it is also recommended that the mounting base is secured using marine epoxy.

4	Verify cELB is operating (see Figure 2)
	<ul style="list-style-type: none"> <li>• Power LED will turn green after power has been supplied to the cELB.</li> <li>• LED 'B' is turned on when GPS position data is valid.</li> <li>• LED 'E' will turn green at the start of communication. After the process completes, the LED will strobe fast if successful and slow if unsuccessful. <b>NOTE - The communication process will fail the first time because there is no data file. This is expected behavior.</b></li> </ul>

#### 47 CFR Part 15 Regulation

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 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 radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the 47 CFR rules. Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For warranty information: [http://www.multitech.com/en\\_US/COMPANY/Policies/warranty/](http://www.multitech.com/en_US/COMPANY/Policies/warranty/)



US Department of Commerce  
 Cellular Electronic Logbook Program for  
 US Gulf of Mexico Shrimp Permits (SPGM)  
 e-mail: [Galv.ELB.Program@NOAA.gov](mailto:Galv.ELB.Program@NOAA.gov)