

Getting started with the IoT Module and LI-COR Cloud

Welcome to LI-COR Cloud and the Internet of the Environment (IoT). An LI-710 with an IoT Module is a Water Node on LI-COR Cloud. An LI-720 with an IoT Module is a Carbon Node on LI-COR Cloud. This document introduces the IoT Module, LI-COR Cloud, the Water Node, and the Carbon Node.

Online resources

Online resources include videos, instruction manuals, software updates, and more.



**IoT Module
Instructions**

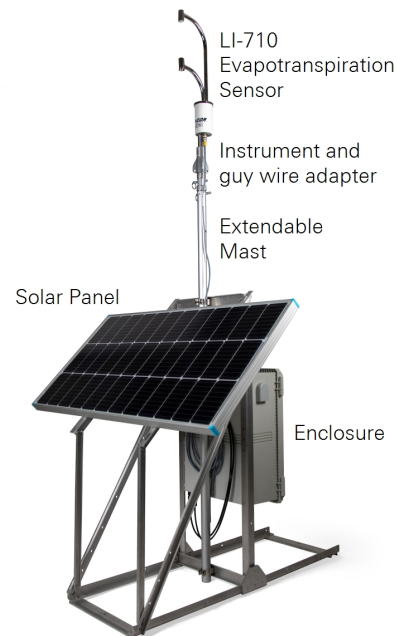
Installation and configuration instructions for the hardware and software that puts an IoT Module online at licor.com/support/IoE-Module/home.html.

**LI-710 or LI-720
Instructions**

Deployment details for the LI-710 Evapotranspiration Sensor and LI-720 Carbon Flux Sensor.

What's what

- **Instrument and guy wire adapter:** A single hardware component that screws onto the top of the mast, the adapter accepts an LI-720/LI-710 mounting post, which is secured with the two set pins. The adapter features connection points for three guy wires. Guy wires are required if the mast is extended.
- **Extendable Mast:** A three-part extendable mast provides measurement heights between 2 and 5 meters above ground level. When extended, the upper segment provides heights between 2 to 3.5 meters. The central segment provides heights between 3.5 and 5 meters.
- **Solar panel:** A 100-watt panel (optional) charges 100-Ah 12-volt AGM lead-acid the battery (also optional).
- **Enclosure:** Encloses the data and power management computer with display and buttons. Includes the cellular antenna, GPS receiver, and space for the optional battery. The connection panel accepts a Stevens HydraProbe and one flux sensor.



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Getting Started

Follow these steps to get started with the LI-710/LI-720 and the LI-COR Cloud. Read all of the safety information in the instruction manual.

Step 1: Assemble the IoE hardware.

You can do this at the site or before going to the site. Detailed instructions are in the manual and at licor.com/support/IoE-Module/home.html. Connect the battery or an external power supply. **Important:** Disconnect the battery and remove it before transporting the IoE Module.

Step 2: Connect the power/data cable to the LI-710 or LI-720.

The cable attaches to the connector on the LI-710 or LI-720. Leave the other end disconnected for now.

Step 3: Power on the IoE module.

Short-press the power button to power on the module. Allow one or two minutes for it to power up and recognize the SD card. Dismiss the notice.


Step 4: Configure sensors.

From the home screen, press the left arrow button three times (◀◀◀) to access the SDI-12 setup tool. Follow the instructions on the screen until you have configured all of the sensors.

Step 5: Create an account on the LI-COR Cloud.

Go to licor.cloud and follow the steps to create an account. A valid email address is required. Log in after creating an account.

Step 6: Register the IoE Module on the LI-COR Cloud.

While logged in to licor.cloud, select **Nodes**  and then **+ Register Node**. Enter a name for the node, the serial number and reg key when prompted (from the IoE Module home screen, press left ◀ and down ▼ to view the information). After scanning the code, allow 30 minutes to an hour after registering for data to be posted.

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