Accessible and actionable evapotranspiration measurements

LI-COR Cloud & IoE Module

Complete your evapotranspiration measurement system with LI-COR Cloud and the IoE Module. Working in a system with the LI-710 Evapotranspiration Sensor, LI-COR Cloud and the IoE Module provide you with entirely remote access to your evapotranspiration measurement data.

The IoE Module is on-site hardware that transfers measurement data from an IoE-enabled LI-710—called the Water Node—directly to LI-COR Cloud. The module hardware includes a solar power system, a mounting pole, and cellular communication equipment–everything you need to mount, power, and connect your sensor to the cloud. LI-COR Cloud is cloud-based software from which you can view, share, and download the Water Node's data whenever and wherever necessary.

What is IoE?

The Internet of the Environment (IoE) is a network of hardware and software that connects sensors and software so you can collect, store, access, analyze, visualize, and forward data using a single system from LI-COR.

When an instrument like the LI-710 is IoE enabled, it means it has been connected to LI-COR Cloud via the on-site IoE Module, and you can now access its data from anywhere.

To learn more about LI-COR Cloud and the IoE Module, visit **licor.com/water-node**.
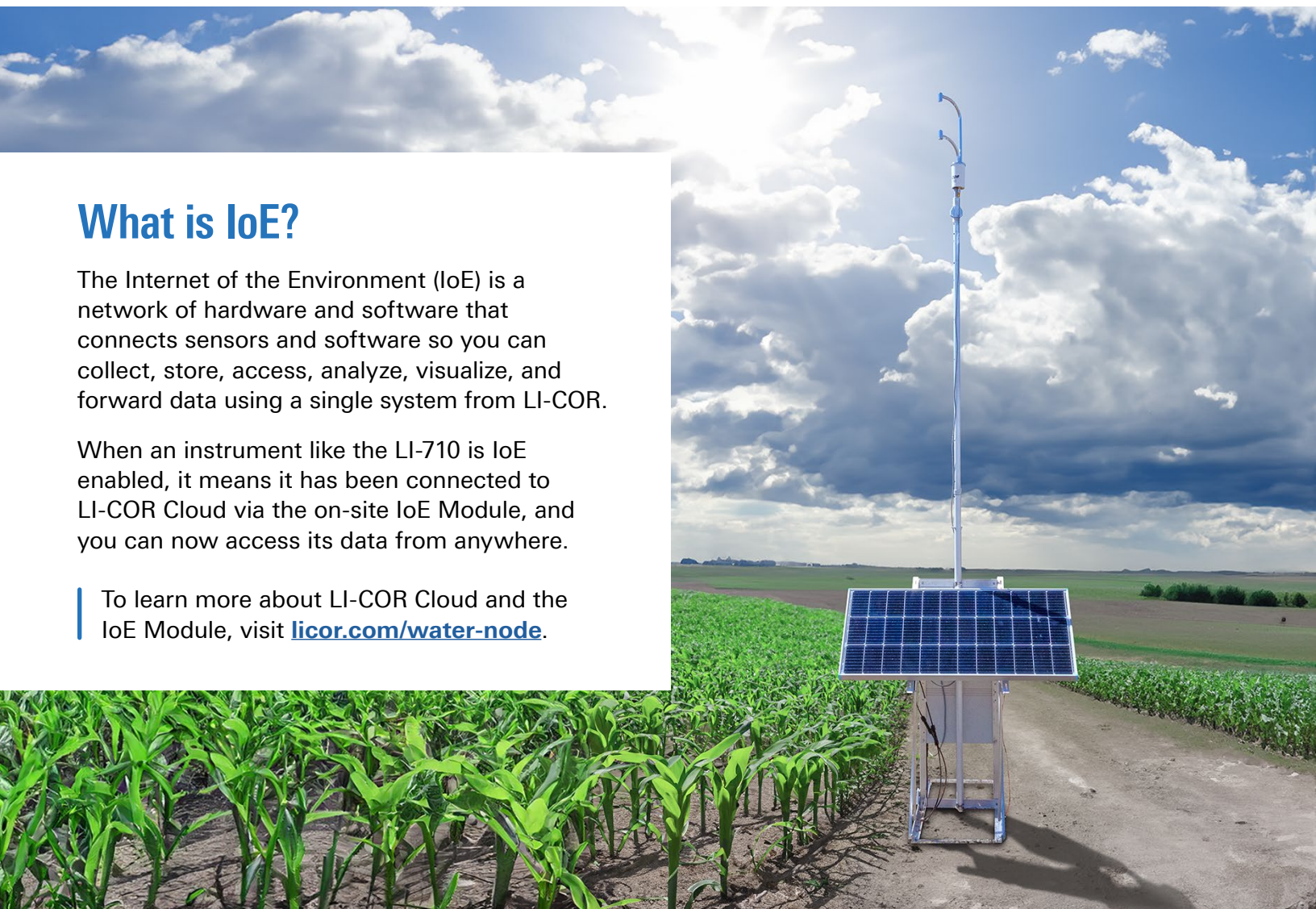
Key Features

- Invite collaborators to easily access the actual evapotranspiration measurement data via LI-COR Cloud
- View, forward, and analyze data from any location for improved collaboration and research expansion
- Install quickly and easily with a straightforward, guided configuration that requires no technical expertise
- Deploy the IoE Module in a variety of ecosystems thanks to the system's durable, weather-resistant design
- Get access to LI-COR Cloud at no additional cost with the purchase of an IoE Module, so data is available immediately
- Group other owners' Water Nodes together to form a large virtual network across a broader landscape
- Power the IoE Module anywhere with the integrated solar panel
- Connect the IoE Module to LI-COR Cloud with included cellular communication capability

Specifications

General

Operating Temperature Range: -25 to 50°C
Operating Humidity Range: 0 to 95%, non-condensing
Storage Temperature Range: -40 to 65°C; 85% RH
Ingress Protection: IP24 Rating
Enclosure Flame Rating: UL94-V-0
Total System Weight: < 55 kg (< 121 lbs.)
Size (not including guy wires or pole): 42x110x108cm (16.5"x43"x42.5")
Display: 35 x 55 mm; monochrome

Solar Power

Solar Panel: 100 Watt Monocrystalline
Battery: 12V, 100Ah AGM
Battery Weight: 25Kg (55 lbs.)
Charger: 9A MPPT (Maximum Power Point Tracking) Charger

Auxiliary Power Input

Input Voltage Range: 9 to 33 V
Maximum Current: 2.2 A

Digital Inputs/Outputs

SDI-12 Eddy Covariance Sensor: 1
SDI-12 ports for other sensors: 2
Output Voltage: 12 V
Maximum Total Current: 2.5A
Micro USB port for firmware updates

Mast

Maximum Height w/ LI-710: 5M (198 in.)
Maximum Load on Mast: 4.54 kg (10 lbs.)
Soil Anchors: 3 with guy wires

Data

Data Storage: Removable Industrial Micro SD card; 8 GB.
Message Buffer: If the modem is offline, data is stored until connectivity is restored.
Data Format: Text, Comma-separated values (CSV)

GNSS (GPS) Support:

GPS receiver for time synchronization and location information.

Cellular

LTE CAT1
Data Transfer Frequency: Data sent every half-hour.
Regional Approvals:

USA	Australia
EU	Greenland
UK	Switzerland
Norway	Canada

Specifications subject to change without notice.

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