

Cellular Communication Packages

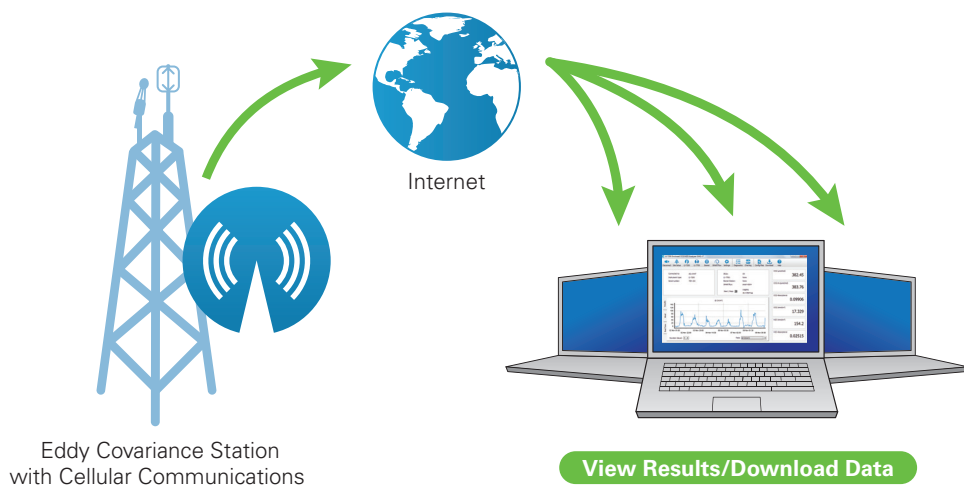
For Use With LI-COR Greenhouse Gas (GHG) and Biomet Systems



- **Remotely check the integrity of flux stations from your office, home, or on the go**
- **Add the SMARTFlux™ System to view fully corrected eddy covariance (EC) flux data in real time**
- **Transfer raw data from your site automatically, or at specified intervals**
- **Configure instruments and sensors at your site(s), from your office, or home computer**
- **Avoid unnecessary site visits and respond quickly to any problems that arise**

LI-COR Cellular Communication Modules use Sierra Wireless™ AirLink® LS300 or Hongdian H7921 modems - rugged, military-grade radios designed for the harshest environments. Cellular radios are available for both Global System for Mobile Communications (GSM) and Code Division Multiple Access (CDMA) communication protocols used by most major cellular carriers around the world.

The cellular communication modules use machine-to-machine data plans provided by the carrier of your choice. Simply arrange a service agreement with your cellular provider, configure the system, and connect to your flux station from any networked Windows® computer.



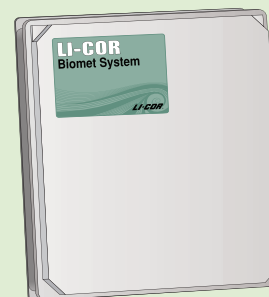
Configurations

GHG System - For EC Systems **without** LI-COR Biomet



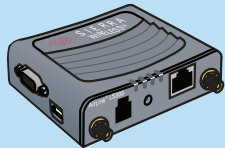
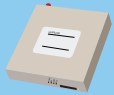
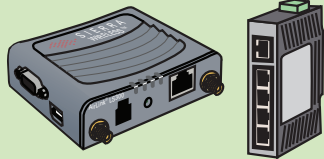

Includes: Weatherproof enclosure, cellular modem (AirLink® or Hongdian), high-gain antenna, power cables, data cables, and additional hardware to support LI-COR eddy covariance systems.

GHG/Biomet System - For EC Systems **with** LI-COR Biomet



Includes: Cellular modem (AirLink® or Hongdian), high-gain antenna, Ethernet switch, power cables, data cables, and hardware to mount module in LI-COR 7900 Biomet System enclosure. The Ethernet switch enables integration of four additional instruments with the Biomet system.

Ordering Information

Configuration	Region ¹	Cellular Protocol	Carrier ²	Part Number	Modem or Modem/Switch Included
GHG System	Europe	HSPA+ (GSM)		7900-700	AirLink® LS300 Modem 
	Canada	HSPA+ (GSM)	Rogers	7900-700	
	India	HSPA+ (GSM)		7900-700	
	United States	HSPA+ (GSM)	AT&T	7900-700	
	United States	EVDO (CDMA)	Verizon	7900-702	
	United States	EVDO (CDMA)	Sprint	7900-704	
	China	EVDO (CDMA)	China Telecom	7900-710	Hongdian H7921 Modem 
GHG with Biomet System ³	Europe	HSPA+ (GSM)		7900-701	AirLink® LS300 Modem and Stride™ 5-Port Ethernet Switch 
	Canada	HSPA+ (GSM)	Rogers	7900-701	
	India	HSPA+ (GSM)		7900-701	
	United States	HSPA+ (GSM)	AT&T	7900-701	
	United States	EVDO (CDMA)	Verizon	7900-703	
	United States	EVDO (CDMA)	Sprint	7900-705	
	China	EVDO (CDMA)	China Telecom	7900-711	Hongdian H7921 Modem and Stride™ 5-Port Ethernet Switch 

¹ If your region is not listed, contact LI-COR for more information.

² Data plans must be arranged by end user. Before purchasing a Cellular Communication Package, make sure that compatible cellular service is available at your site, and that the carrier supports Machine-to-Machine (M2M) communication.

³ The GHG with Biomet System modem and Ethernet switch are installed in the LI-COR 7900 Biomet System enclosure.



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 City

Specifications*

GHG System

Dimensions: 25.5 cm x 18.5 cm x 12.5 cm (10 x 7.5 x 5 in.).

Weight (enclosure and modem): 2.25 kg (4.96 lb.) with AirLink LS300 modem, 2.36 kg (5.2 lb.) with Hongdian H7921 modem

GHG with Biomet System

Weight (modem/switch only): 0.55 kg (1.22 lb.) with AirLink LS300 modem/Stride switch

Sierra Wireless™ AirLink® LS300 Modem

Communication Protocols:

GSM Cellular Networks (LI-COR p/n 7900-700, 7900-701)

CDMA Cellular Networks (LI-COR p/n 7900-702, 7900-703, 7900-704, 7900-705), Ethernet

Regional Availability: U.S., Canada, Europe, India

Power Requirements:

Input Voltage: 7-28 VDC (12 VDC nominal)

Low Power Standby Mode: <35 mA@12VDC

Operating Temperature Range: -30 to 70 °C (-22 to 158 °F)

Humidity Range: 90% RH at 60 °C (non-condensing)

Hongdian H7921 Modem

Communication Protocols:

CDMA Cellular Networks (LI-COR p/n 7900-710, 7900-711), Ethernet

Regional Availability: China

Power Requirements:

Input Voltage: 5-36 VDC

Power Consumption: Idle: 80mA@+12 VDC

Operating Temperature Range:

H8922: -30 to 70 °C (-22 to 158 °F)

H7921: -20 to 60 °C (-4 to 140 °F)

Humidity Range: <95% (non-condensing)

Stride™ 5-Port Industrial Ethernet Switch

Communication Standard: Ethernet

Power Requirements:

Input Voltage: 10-30 VDC

Power Consumption: 3W maximum

Operating Temperature Range: -40 to 85 °C (-40 to 185 °F)

Humidity Range: 5 to 95% (non-condensing)

Laird Technologies® Direct Omni-directional Antenna

Dimensions: 24.8 cm x 2.45 cm (9.8 x 1 in.).

Cable Length: 5m (16.4 ft.).

Antenna Mounting Post: 1.5m (4.9 ft.).

Weight: 156g (5.5 oz.).

Power Requirement: 10W maximum

Operating Temperature Range: -30 to 70 °C (-22 to 158 °F)

* Specifications subject to change without notice

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