



**Safe  
Environment  
Engineering**

## **Life•line Interoperable Network Communicator (LINC)**

The Lifeline Interoperable Network Communicator (LINC) is a simple to use wireless WiFi compliant tool that enables remote live viewing of the information gathered from many existing and different type of meters (instruments) and sensors. The LINC interfaces with radiological, chemical, physiological, and other meter/sensor categories.

A LINC is attached to the meter/sensor. The information is then wirelessly relayed to a Lifeline Meter application located in a safe location away from a potential hazard.

The LINC is a small rugged sealed enclosure with an integrated GPS capable of transmitting meter/sensor readings and its location once per second for at least 14 hours using an interchangeable rechargeable battery or continuously through its USB port.



### **Specifications**

**Technology:** IEEE 802.11b/g, WiFi compliant

**Frequency:**

2.4 ~ 2.4835 GHz (US/Can/Europe)

2.471 ~ 2.497 GHz (Japan)

**Modulation Technology:** DSSS, CCK, OFDM

**Modulation Type:** DBPSK, DQPSK, CCK, BPSK, QPSK, 16QAM, 64QAM

**Network Access Modes:** Ad-hoc, infrastructure

**Channels:**

11 channels - USA/Canada

13 channels - Europe

14 channels - Japan

4 channels - France

**Data Rate:**

802.11b rate: 11, 5.5, 2, 1 Mbps

802.11b/g rate: 54, 48, 36, 24, 18, 12, 9, 6 Mbps

**MAC:** CSMA/CA with ACK, RTS, CTS

**Data Transfer:** TCP/IP, HTTP, UDP

**Range:**

150 feet/45 Meters Max indoor

300 feet/90 Meters Max outdoors

**Connector/Connection:**

RS-232

TTL

IrDA

Ethernet

Contact Closure

Bluetooth

Analog (4-20mA)

**Dimensions:**

4.51x2.52x1.02 inches

**USB:** Redundant wired interface / Battery Charger / External Power

**Indicators:**

Power, GPS, WiFi connection, Data received, Battery status

**Sensitivity:**

-75 dBm for 54Mbps

-88 dBm for 36Mbps

-88 dBm for 18Mbps

-88 dBm for 11Mbps

-98 dBm for 1Mbps

**Security:** WEP 64 & 128 bit (RC4),

WPA (TKIP), 802.11x (LEAP), WPA2

**GPS:** 48 Channels SiRF Star IV

35 sec cold start acquisition @-140 dBm

Accuracy 3 feet vertical, 5 feet horizontal

**Antenna:** WiFi SMA, GPS SMA-RP, 50 ohms

**Supply:** 4400 mAh Lithium Ion Battery, 3.7 VDC +/-5%

**Current Consumption:**

575mA - transit mode (typical)

375mA - receive mode (typical)

**Power Up Inrush Current:** 3000 mA (max) 20ms

**Operating Temperature:** -40°C - +85°C

**Serial Interface Data Throughput:** UART up to 460k Baud

**Analog Inputs:** Up to 8 channels, 10 bit resolution

**Agency Approvals:** FCC Part 15 Class B Sub C Intentional

CE ETSI EN300 328, EN301 489, ETSI 60950-1

IC RSS210

RoHS and WEEE compliant

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