



Senor E

Beacon & Range Extender













Product Overview

Senor E is a bi-directional communication device that can be positioned at various locations throughout the BLE Mesh network to extend its coverage. This USB powered wireless BLE5.2 based device also supports beacons and comes with an external stick antenna for better communication.

Senor E is a part of Lumos Controls ecosystem supported by controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards.

The ecosystem is listed by the **Design Lights Consortium (DLC)**, qualifying it for energy conservation incentive programs and rebates by utility companies.

Features

- Increases the Lumos Controls BLE Mesh network range
- Supports iBeacon, Eddystone beacon, Eddystone beacon URL, Alt beacon, and Custom beacon
- Stick antenna for better wireless communication
- Unit powered by a USB type A adapter
- Zero downtime Over-the-Air (OTA) firmware updates

Specifications

Electrical

Specifications	Value	Remarks
Input voltage	5VDC	USB type-A
Input current	15mA	Typical current

Environmental

Specifications	Value
Operating temperature	-40 to 50°C(-40 to 122°F)
Storage temperature	-40 to 85°C(-40 to 185°F)
Relative humidity	85%

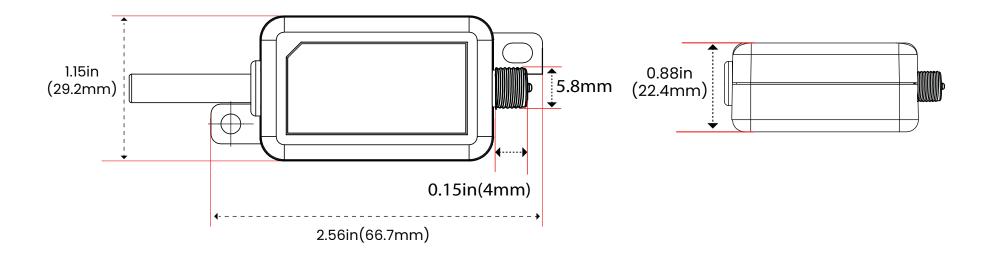
Bluetooth

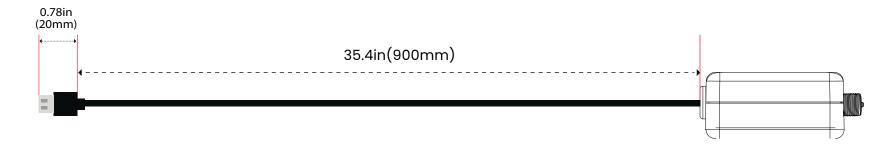
Specifications	Value	Remarks
Frequency range	2402 - 2480MHz	
Max output power	8dBm	Conductive
Receiver sensitivity	-92dBm	
Connection distance (device to device)	45m(147.6 ft)	Vary depending on the installation enviornment

Mechanical

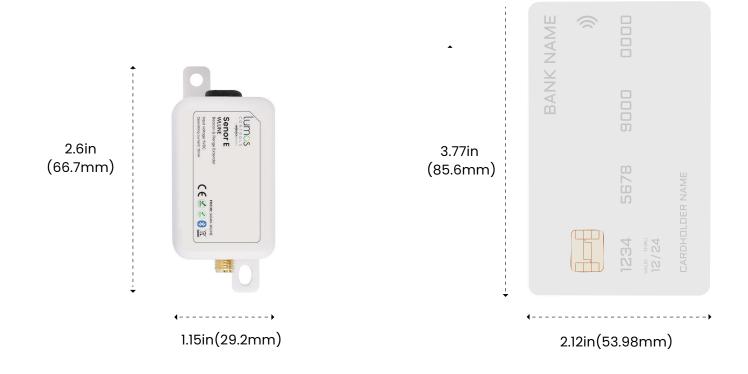
Specifications	Value	Remarks
Dimensions	2.56 x 1.15 x 0.9in (66.7 X 29.2 X 22.4mm)	LXWXH
Weight	84g(2.96oz)	
Case material	Polycarbonate	White
Flammability rating	UL 94 5VA	

Product Dimensions





Size comparison with a standard credit card





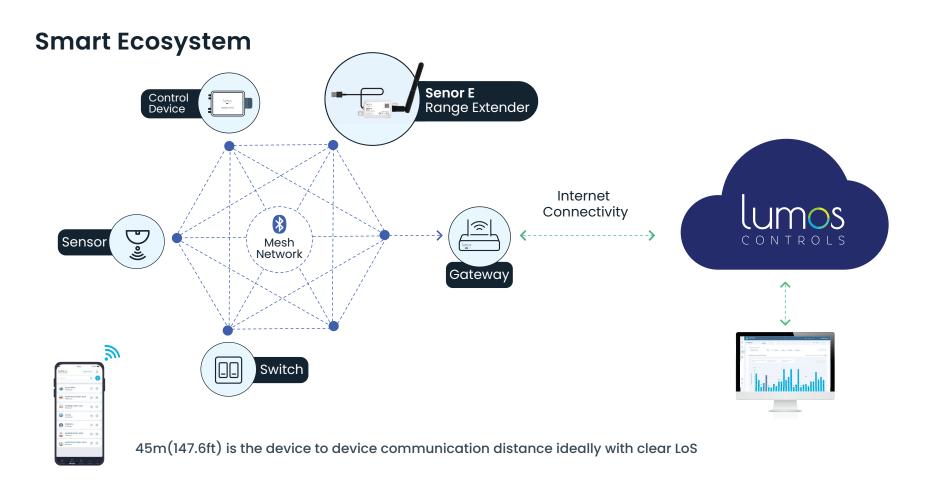
Antenna Information

Stick antenna



Antenna Properties		
Frequency range	2.4GHz-2.5GHz	
Impedance	50Ω	
VSWR	≤ 1.8	
Return loss	≥12dB	
Gain(peak)	2dBi	
Power handling	10W	
Polarization	Vertical	
Radiation pattern	Omni-directional	

^{*}Wire antenna option available. Please contact sales



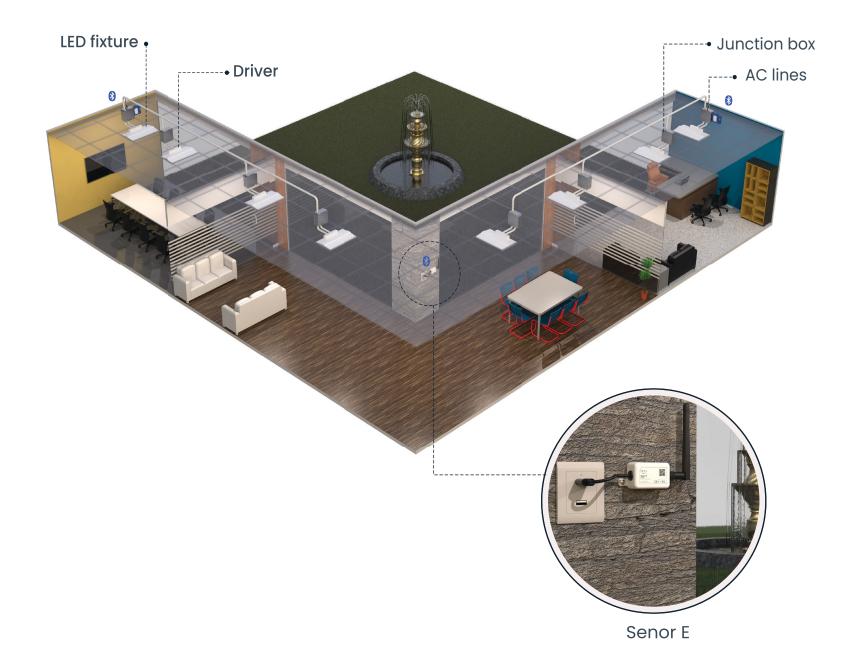
Certifications	Details	
CE	IEC 62368-1:2014 EMC test standards ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55032:2015/A11:2020 EN55035:2017+A11:2020 Safety test standards IEC 62368-1:2014	Radio test standard ETSI EN 300 328 V2.2.2 (2019-07) Health test standards: EN 62479:2010 EN 50663:2017
RoHS 2.0	RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	
REACH	Regulation (EC) No 1907/2006 of REACH	
WEEE	Under the WEEE Directive: 2012/19/EU	
Bluetooth	Declaration ID: D059551	
FCC	ID: 2AG4N-WLUNE	

Items included in the package box

Senor E
 User manual
 Stick antenna
 Power Adapter
 Wall plugs
 Screws

Application

1. Senor E as range extender



2. Senor E as beacon





Senor E

Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating
WLUNE	Senor E	Beacon and Range Extender	BLE5.2	5V, USB type-A

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20321 Lake Forest Dr D6, Lake Forest, CA 92630 www.lumoscontrols.com

\(+1949-397-9330