

SRPT-L-CSB-EKKO

Technical Datasheet Dual-Antenna Casambi Signal Transceiver (Repeater)



Description

EKKO is a newly developed and wholly unique signal repeater, developed by Eulum Design.

Featuring two, 5dBi gain 'Rubber Duck' antennas, EKKO is capable of receiving signals at an extended range, as well as broadcasting them up to 300m (984 feet) in open air. Additionally, EKKO supports the use of a cable to remote locate it's antennas, up to 10m away.

This property makes it possible to pass the antenna through thick walls and floors, as well as around the corners of buildings, to eliminate any network blind spots, and make poor communication a distant memory.

Due to it's 'echoing' configuration, EKKO is capable of receiving a signal on one antenna, and broadcasting it over the other antenna instantaneously. Effectively passing signals through barriers via it's wired, remote antennas.

- 90-277 VAC Input
- Casambi Long-Range
- 300 Meter Wireless Broadcast Range (Casambi Long-Range Mode)*



Technical Specifications

Mechanical

Housing	Anodised Machined Aluminium
Dimensions	185.5mm x 120mm x 35.5mm
Weight	800 g
Protection	IP65
Mounting	Keyhole

Power Input

Voltage Range	100-277 VAC
Max Power	200mW@120VAC / 250mW@240VAC

Radio Transceiver

Operating Frequencies	2.4Ghz - 2.483Ghz
Maximum Output Power	+4dBm Per Antenna
Wireless Protocol	Casambi Wireless Mesh
Antenna Connection	2x SMA Male
Wireless Range	120 Meters (300 Meters in Casambi Long-Range Mode)

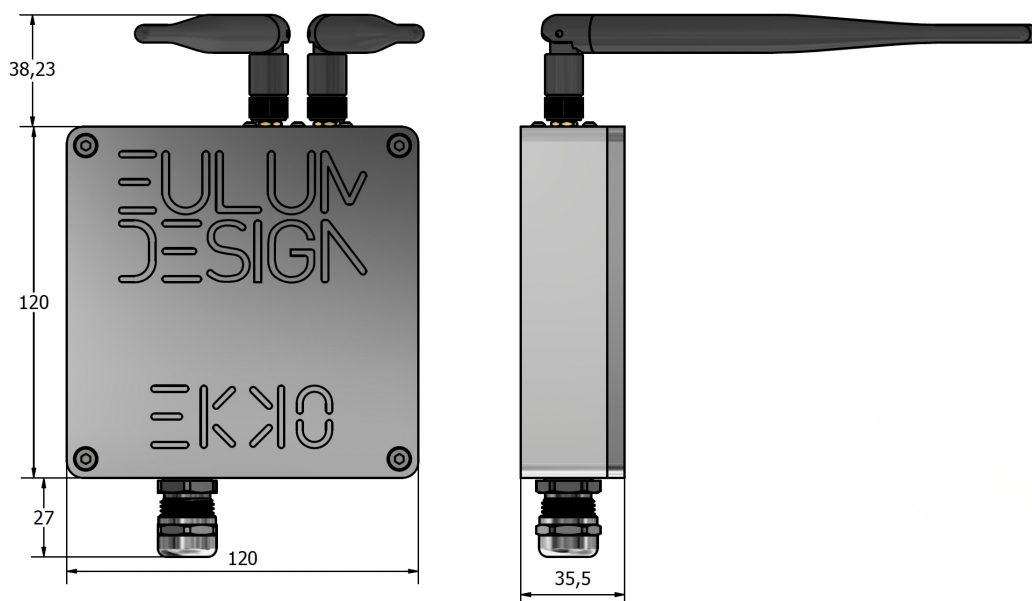
Operating Conditions

Ambient Temperature	-40°C to +65°C
Max. Case Temperature	+65°C
Storage Temperature	-40°C to +80°C
Max. Relative Humidity	< 95% non-condensing

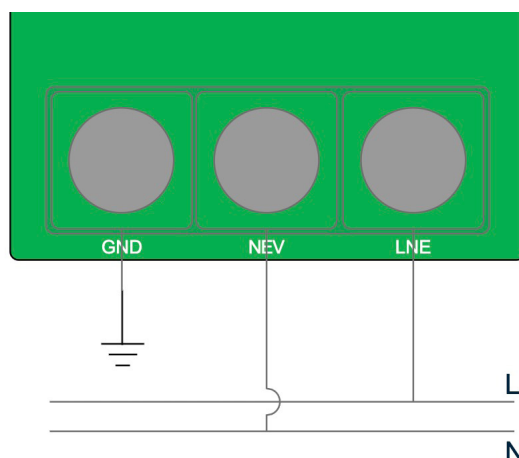
Connectors

Wire Range	0.2mm - 1.5mm
Wire Strip Length	5mm

Dimensions



Wiring Diagram



*Range

In open air, the wireless range can reach or exceed 300m in Long-Range mode. This may be reduced when placed inside a building, or by other environmental factors. In normal mode, the range is up to 120m. Please note that putting the unit inside a metal enclosure is unadvised as this will dramatically reduce the signal range.

Compatible Devices:

iPhone iOS and later are supported
iPad iOS 10 and later are supported
Android 4.4 version (KitKat) and later are supported.



Warranty

For information on our warranty, please visit: www.eulum.com/warranty/