

AlertTrace Mini Datasheet

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info@VOSIQ.com

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Laird Hub Datasheet

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Laird Hub

Features

- Bluetooth 5
- Custom Application Support
- 4G LTE/3G/2G
- Ethernet
- WiFi (currently under development)
- Military Grade Encryption
- Over the air firmware update
- Status LED lights
- Compact Size

Applications

VOS System's global gateway connects IoT sensors, smart devices, and modules.

Connectivity

The global gateway currently supports ethernet and cellular LTE out of the box. WiFi support is under development. Please contact your sales representative if WiFi is a priority for you.

If ethernet and cellular LTE are being used at the same time, then the ethernet based connectivity is prioritized.

Ethernet

The global gateways can be connected to the cloud using either of the ethernet ports (LAN1 or LAN2).

Laird Hub Specifications

Dimensions	85 mm x 22 mm x 100 mm
Flash Storage	512 MB NAND Flash
Memory	256 MB LPDDR RAM
Bluetooth Low Energy	BLE 5 (LE, 1M, 2M)
Custom Application Support	Custom C/Python applications
4G LTE bands	Bands 1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28
3G bands	Bands 1, 2, 4, 5, 8, 9
2G bands	850, 900, 1800, 1900 MHz
Mounting Style	DIN-rail or wall mount
Antenna Ports	3x SMA, front-face 2x SMA, back-face
Temperature Range	-30° to +85°C (-22° to +185°F)
Voltage	9-30 V DC

Cellular LTE

The global gateways ship with a global SIM card that allows the device to get online anywhere in the world with LTE coverage. The global gateway supports 4G LTE with 3G and 2G fallback. Please refer to the table below for the supported cellular LTE bands.

Cellular LTE	Bands/Frequencies
4G LTE	Bands 1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28
3G	Bands 1, 2, 4, 5, 8, 9
2G	850, 900, 1800, 1900 MHz

AlertTrace Mini

Features

- BLE Advertisement
- BLE indoor micro-location
- Configurable over BLE connection
- Configurable advertisement interval
- Configurable TX power
- Battery status LED
- Compact size
- Firmware update over BLE
- 1 year battery life with single 225 mAh coin cell under typical use-case



Mini Specifications

Dimensions	47.5 mm x 29.5 mm x 15.2 mm
Weight	15.1 grams
BLE Technology	BLE 5.2
Battery	Lithium-Ion coin cell
Battery Capacity	225 mAh
Sensors	Accelerometer
Human Interfaces	Red LED
Firmware Update	BLE DFU
Operating Temperature	-20°C to 60°C
Care Material	ABS

Power Consumption

With a single 225 mAh coin cell battery, 1 second advertisement intervals, and +4 dBm TX power, the CoRe Beacon is designed to have a battery life of one year.

Basic Functions

Advertisement: iBeacon formatted scan response.

Interval: Time between BLE advertisements. Configurable from 20ms to 10.24s over BLE connections.

TX Power: Transmit power (dBm) of BLE advertisements. Configurable to the following over BLE connection: -40, -20, -16, -12, -8, -4, 0, 2, 3, 4, 5, 6, 7, 8

Compatible with:

- VOS systems BLE gateways
- 3rd party systems



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