

# Efento Gateway Bluetooth – LTE

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The Efento Gateway automatically transmits data from Efento Bluetooth Low Energy sensors to Efento Cloud or any other IoT platform over a cellular (LTE) network. This gateway enables the creation of remote monitoring systems and is compatible with all types of Efento sensors. Equipped with internal memory, the Efento LTE Gateway buffers sensor data, while its built-in backup battery ensures uninterrupted power during outages. The device is easy to set up in just minutes using a free mobile app.

## Key Features

- **Compatibility with All Efento Bluetooth Low Energy Sensors**

The Efento Gateway collects data from all Efento sensors and sends it to Efento Cloud or any IoT platform.

- **Enhanced Security**

Data transmission between Efento sensors and the Gateway can be encrypted (AES128), ensuring that only authorized devices can access sensor data.

- **LTE Connectivity with Backup Battery**

The Gateway uses LTE to transmit data. If there's a power outage, it automatically switches to the built-in backup battery, allowing it to operate for 12 hours.

- **Supports Up to 128 Sensors**

Each Gateway can support up to 128 Efento sensors. Need more capacity? Just add another Gateway.

- **Easy Integration**

Efento Gateway can integrate with any software that supports REST, providing flexibility for various applications.

- **Quick Setup**

The device comes pre-configured and is almost ready to go right out of the box. Setup takes under 5 minutes and can be completed using a smartphone with a free mobile app.

## Technical data

### Bluetooth Low Energy interface

- Communication: Bluetooth Low Energy (BLE)
- Encryption: AES128
- Radio module frequency: 2,4 GHz
- E.I.R.P 16 dBm, 0.0398 W
- Power: 2,5 mW (4 dBm)
- Range: up to 100 m (LOS)
- Communication standard: Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)
- Transmission period: 1s

### LTE

- Standard: LTE Cat 1
- Supported bands:
  - ◆ LTE-FDD: 1/3/5/7/8/20/28
  - ◆ GSM: 2/3/5/8

### Power

- Power supply: 5V DC / 1A, USB-C
- Backup battery: LI-Po, 1900 mAh (up to 12 hours backup power)

### Mechanical

- Dimensions: 110 x 80 x 25 mm
- Weight: 150 g
- SIM card: Nano size (not included)

### Environmental

- Working conditions: 0 – 40°C, 10 – 90% RH
- Indoor use only

### Certifications

- CE, RoHS

## Additional Information

### Easy Setup

The Efento LTE Gateway is simple to set up, requiring no drivers or additional software. This allows the device to be up and running within minutes. Configuration is done through a mobile app, so there's no need for cables or a computer.

### Seamless Integration

The Efento LTE Gateway integrates with any software compatible with the HTTP protocol (REST architecture), making it compatible with ERP, SCADA, and building automation systems. For access to Gateway libraries, please contact us.

### Reliable Cellular Connectivity

Equipped with an LTE Cat 1 module, the Efento LTE Gateway transmits data over the cellular network, eliminating the need to connect to local network infrastructure. Simply insert a SIM card, link the gateway to your Efento Cloud organization, and start receiving measurements.

### Additional Power Source

The Efento LTE Gateway has a backup battery that provides up to 12 hours of power during outages. If building power is lost, the device automatically switches to battery power. You can also configure notifications (SMS, push, email, or phone call) to alert you immediately when building power goes down.