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Efento Gateway Bluetooth – LTE

EAN:

Efento Gateway automatically transfers data from Efento Bluetooth Low Energy to Efento Cloud or any other IoT platform over cellular network (LTE). Gateways are used to build remote monitoring systems and works with all types of Efento sensors. Efento LTE Gateway is equipped with built in memory which buffers the sensor data. Moreover, the built in backup battery provides it with power supply in case of any disturbances. The device can be setup in minutes with a free mobile application.

Key features

- ➔ **Works with all Efento Bluetooth Low Energy sensors**
  Efento Gateway collects data from your sensors and sends it to Efento Cloud or any other IoT platform.

- ➔ **Security**
  Wireless transmission between Efento sensors and Efento Gateway can be encrypted (AES128). Thanks to that only authorized devices can read the sensors' measurements.

- ➔ **LTE connectivity and backup battery**
  The gateway uses LTE to send the data. If there are any issues with power supply, the gateway will automatically switch to the built in backup battery and work for at least 24 hours.

- ➔ **Up to 128 sensors**
  One gateway supports up to 128 Efento sensors. If you need more, simply add another gateway.

- ➔ **Integration**
  Efento Gateway can be integrated with any software which supports REST.

- ➔ **Quick set up**
  The device is pre-configured and works practically from the box. Configuring Gateway will take you less than 2 minutes! You can do it with a smartphone a computer.

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: 1 s

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 24 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 set up
Efento LTE Gateway setup is quick and easy. It does not require the installation of any drivers or software. That ensures the workability in just a few minutes after starting the device. Configuration can be done using a mobile application, so you don't need any cables or a computer.

Gateway integration
Efento LTE Gateway can be integrated with any software that is compatible with HTTP protocol (REST architecture). For instance the device can cooperate with ERP and SCADA software or with building automation system. If you would like to have access to Gateway's libraries, feel free to contact us.

Cellular connectivity
Efento LTE Gateway is equipped with LTE Cat 1 module that allows it to send the data over cellular network. You don't need to connect it to your network infrastructure. Just place a SIM card, assign the gateway to your Efento Cloud organisation and start receiving the measurements.l

Notification on changing the power source
Efento LTE Gateway is equipped with a backup battery that can power it up for up to 24 hours. If the power supply in the building is down, the gateway will automatically switch to the battery. Moreover, you can configure notification (SMS/push/email/phone call) so you immediately know that there is no power in the building where the gateway is located.

2G fallback
If there is no LTE connection in the place where the gateway is located, it will automatically switch to 2G network.