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Ease EG-IoT

*Telemetering and Geolocation Application for **EG-IoT** products*

Ease EG-IoT is a demo application designed to test the **Remote Monitoring** and **Geolocation** features of the **EG-IoT** products. The application is pre-loaded in the devices.

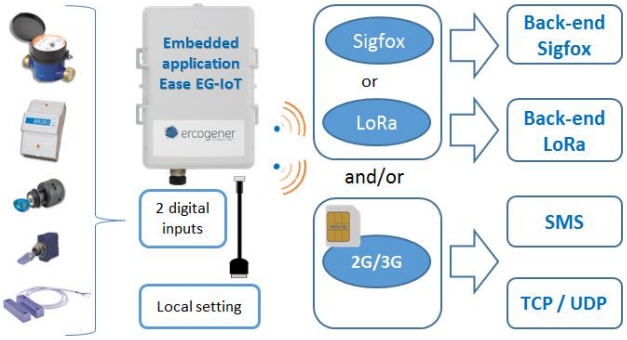
Easy to configure, the **Ease EG-IoT** application ensures the recording of the status or location data of the **EG-IoT** and its transmission via **Sigfox**(1) or **LoRa**(1) and/or **Cellular 2G/3G**(1) networks to a dedicated server (TCP/UDP) with additional SMS transmission.

The application allows selection of the mode of use, either **Telemetering** (reading of digital inputs) or **Geolocation** mode.

Use cases(2)

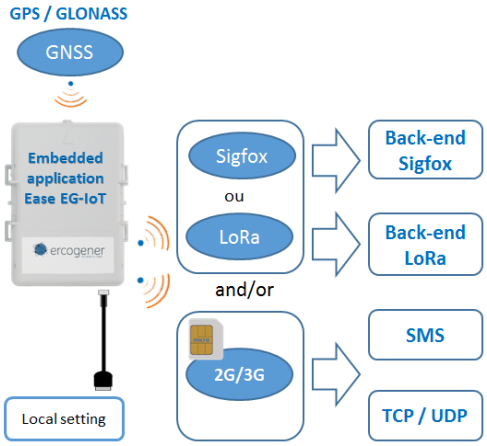
Telemetering mode

- Pulse counting : energy meter reading
- Access control : alert upon change of status of digital input (intrusion, machine alarm, automation system output)
- Measurement of a machine operating time
- Internal temperature reading and alert upon high and low thresholds



Geolocation mode

- Tracking of assets and vehicles with alert upon zone exit
- Tracking of assets and vehicles upon detection of movement



(1) *Supported network according to the EG-IoT case model used.*
The use of the LoRa, Sigfox, and 2G / 3G networks requires subscription to the operator.
(2) *Supported features according to the EG-IoT case model used.*

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Ease EG-IoT Common functions

V2.0x

Configuration mode :
- Via Terminal TTY
- Manual setting of Date & Time
- Saved in flash memory

Activation mode :
- Immediately
- Programmable timer delay
- Deep sleeping

Cyclic wakeup (KeepAlive) :
- Programmable timer delay

Transmission mode :
- LoRa or Sigfox and/or cellular 2G-3G
- Data sent over one or more networks
- Select TCP or UDP mode (2G-3G)
- Optional SMS (2G-3G)
- Network detection

Low power consumption mode:
- The product is in sleep mode between data transmission cycles.

Telemetering functions

Digital inputs configuration :
- Default state (open / closed)
- Selection mode:
  - Pulse counting (with preset)
  - Time counting
  - Trigger mode (status change)

Wakeup on event :
- Wakeup on digital inputs status change

Specific frame format :
- ID, Opcode
- Date & time
- Meters states
- Digital inputs states
- Internal battery voltage
- Internal temperature
- Cellular signal level

Note: in Telemetering mode the Geolocation functionalities are not available.

Geolocation functions

Geolocation :
- GPS / GLONASS

SMS :
- Geolocation with Google Map™ link

Wakeup on event :
- Wakeup upon movement detection via internal 3-axis accelerometer

Tracking mode (Alert Cyclic) :
- Adjustable cycle (minimum 10mn)
- Triggering on movement

Geofencing :
- One circular zone
- Alert upon zone exit

Specific frame format :
- ID, Opcode
- Date & time
- GPS Position (decimal degrees)
- Speed, Internal battery voltage
- Internal temperature,
- Altitude, Cellular signal level

Note: in Geolocation mode the Telemetering functionalities are not available.

For more detailed information please refer to the EG-IoT User Guide available on line at www.ercogener.com

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