



DROP

Linux embedded, ZigBee, MODBUS, DLMS, Ethernet, WiFi

All in one - Ready for IoT



The Drop is a **multi-protocol** and **multi-standard datalogger** for **real-time acquisition**.

The device is ideal for DIN rail mounting and can be used for **industrial systems**, **home automation** and developing applications for the "**Internet of Things**".

The Drop is based on the credit-card-sized Linux computer **BeagleBone Black** and comes **with linux embedded preinstalled (Ubuntu or Angstrom)**. The BeagleBone Black has **dual flash memory** (4GB onboard and external micro SD) which makes it extremely flexible and robust for data storage and device reliability. The preinstalled software libraries and hardware peripherals allow the GWi EVO to operate in a **Modbus RTU/TCP** network and provide support for communication with meters compatible with the **DLMS/IEC 62056** standard.

Data can be shared, received and sent via Ethernet (10/100Mbps), WiFi and/or the integrated GSM/GPRS modem. The modem embeds an interesting feature that allows you to perform diagnostics or emergency reboots remotely by simply sending an SMS.

The USB port allow to connect a Bluetooth or BLE dongle and give the possibility to develop, in linux environment, application based on those technologies.

The Drop can be integrated into existing monitoring systems thanks to its standard communication interfaces and to preinstalled software libraries.

KEY FEATURES:

- Network management of Modbus devices
- Compatible with standard DLMS/IEC 62056
- Instant access and storage of all the data from the sensors
- Web interface and main parameters configuration
- Data export via well documented HTTP JSON API
- Real Time Clock System (RTC)
- History of measurements
- Account and Security Management
- Integrated GSM Modem (optional)

Technical data

GWi EVO

Power supply	DC 5V/1A
Temperature range	0°C, +70°C
Size	4 modules DIN rail mounting: 87x90,5x62 mm
Power absorption (typical)	<2 Watt
Connections:	n.1 RJ45, n.1 USB socket type A, jack for power supply, miniUSB for power supply and configuration
Communications interfaces:	n.1 10/100 Mbps Ethernet, n.1 USB, n.1 RS485
Pulse counter input	n.1 female jack
Pulse type	Optical (LED with Adapter) and electrical contact
Max pulse frequency	10 Hz
Min pulse width	20ms

ACCESSORIES

Power supply: 220VAC - 5VDC 1A

Ethernet – serial converter



Adapter: active optic/electric converter to be used with the blinking LED present on meters



WiFi USB adapter



GSM Click Modem