

EBD-CIRRUS-4T SERIES



- IOT datalogger for indoor and outdoor applications.
- Stylish IP67 housing with Internal battery pack
- Integrated, Low power 4.2" e-Ink display for displaying measured values, while maintaining overall low power.
- Internal 4x C Alkaline battery holder, enables the device to work for 3 years depending on communication settings
- Wide range of integrated sensors with full modelization and configuration from cloud.
- VPN Simcard provided for cellular models with worldwide coverage.

The CIRRUS 4T datalogger series combine state of the art design with seamlessly NUVA cloud integration. The following models are available depending on communications options.

- **EBD-CIRRUS-L**, powered with LORA transceiver, capable of ranges of several kilometers at very low power consumption, it can interface with LORAWAN networks where available or with **EB/D-CIRRUS-GL** dataloggers which will relay their signals to NUVA cloud.
- **EBD-CIRRUS-GL**, powered with standard GPRS module.
- **EBD-CIRRUS-TL**, it is powered with a GPRS/NB-IOT / LTE CAT-M1 low power modem.

Technical features:

- 3 digital/analog inputs capable for interfacing sensors such:
 - 4..20 mA sensors
 - 0-10V or 0-3V analog sensors.
 - Caudalimeters / pulse counters.
- Digital UART input
- 1 Opto isolated input
- 1 analog 0-10V Output.
- SDI 12
- RS485 with MODBUS (optional)
- 2 x I2C ports for low power analog probes
- GPRS / NB-IOT / LTE-CAT-M1 / LORA communications options
- Internal memory of 136K and 32 bits measures
- 100uA average consumption including display.

WIRELESS RADIO

The options for LORA radio are:

LORAWAN
NIOT-MESH

INNOVATIVE FEATURES:

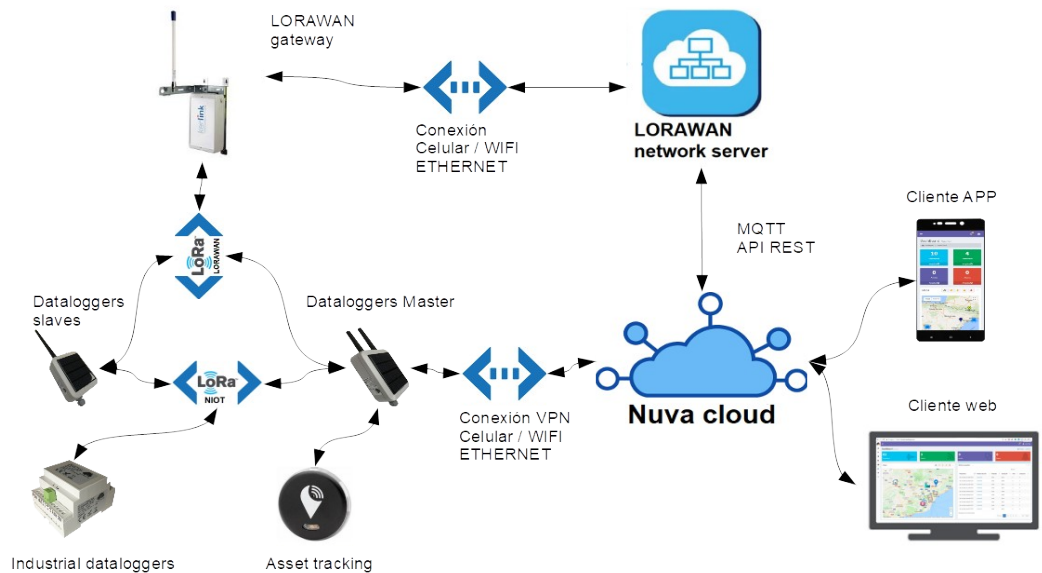
In combination with other devices of Nuvathings ecosystem, a full range of IOT and industry 4.0 system can be achieved with options for:

- BLE asset tracking
- EDGE alarm triggers processed in the device.
- GPS machinery trackers.
- Cold chain monitoring
- Security and access control.
- Custom devices available on request.

For more information on any of our products or services please visit us on the Web at:

www.nuvathings.com

or simply e-mail us at info@nuvathings.com



Feature summary

EGPRS	Bands	850 / 900 / 1800 / 1900 MHz
NB-IOT / CAT-M1	Bands	B1/B2/B3/B4/B5/B8/B12(B17)/B13/B18/B19/B20/B25Ⓞ/B26*/B28/B39 (B39 for Cat M1 only)
LORA	Freq / Power	869.525MHz / 17dBm
Impact Sensor	Internal 4G range.	Configurable trigger
Display	E-Ink	4.2" 400x300 pixels
Device functions	Configuration	From cloud platform
	Alarm configuration	Cloud based
	Alarm processing	Edge on device
	Internal device logging	126K 32 bits register
	Analog data register	Configurable from 1 minute (5 default)
	GNSS data register	Configurable from 1 minute (5 default)
	Transmission cadence	Configurable from 1 minute. (30 default)
Rules and normatives	EN10830	Dec conformity
	Wellmec	Class C
	EN 13 485	Dec conformity
	EMC + SAFETY	IMQ certification
Battery lifetime 4 x C Alkaline	Measure each 5 minutes, and GPRS transmission each 120 minutes	2 year
Battery lifetime 4 x C Alkaline	Measure each 5 minutes, and LORA transmission each 15 minutes	4 year



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