

# elebia®

smart lifting solutions



## eLINK

The eLINK is a central data acquisition and control system which main's operating function is to control the lifting hooks, either individually or in groups, through a web application. The eLINK's in/out capabilities allow crane automation using the hook's sensors. All in a quick, flexible and simple way. It can be used to increase productivity, enhance safety, service, tracking.

For more information visit us at [www.elebia.com](http://www.elebia.com)

Stevedore, windpower, steel mills, mining, aeronautics, nuclear, construction... No matter what your industry is **elebia will boost the safety and productivity of your cranes.**

## Functions of the eLINK



**Integration:** eLink allows communication between the hooks, the crane, the remote controls and other devices.



**Data Logger:** the eLink itself generates a Log file with all the events that are carried out while the eLink is operating, saving each event with date and timestamp thanks to the Real Time Clock.



**Data access:** the log file can be accessed through the App, via WiFi or via the Internet



**Monitoring:** hook status can be monitored through the App via WiFi or via the Internet



**Automation:** logical rules can be defined in order to perform different actions using hook status values.



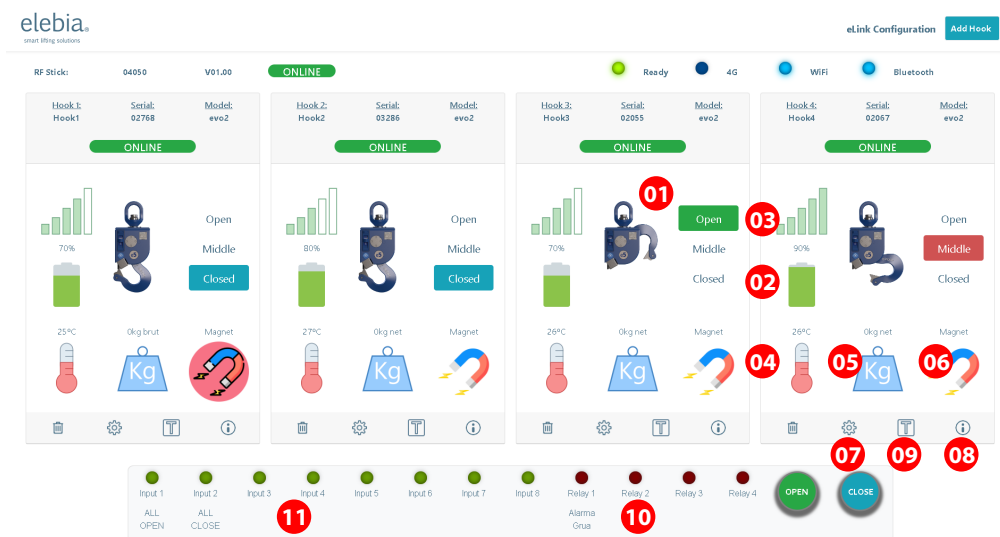
**Remote Maintenance:** elebia service team can perform preventive and remote maintenance and support using eLink data.



**Over the Air Updates:** updates, bug fixes and new features can be delivered by OTA

\*some of this features will be deployed over time / eLink can work offline or cloud based.

## Web app



- 01 Hook status
- 02 Battery level
- 03 Radio strength
- 04 Temperature
- 05 Weight
- 06 Magnet sensor
- 07 Hook settings
- 08 Hook info center
- 09 Tare / Gross / Net weight
- 10 Relay Status
- 11 Input Status

## Application example

### Customer lift cradles with 4 elebia hooks per cradle. eLink allows to:

- Control all the hooks with existing crane remote control (no extra remotes needed).
- **Safe Lift:** If 4 hooks are not fully closed, crane won't lift. (increased safety)
- **Smooth lift:** Once hooks are fully closed, lift will be allowed at low speed. (increased safety)
- Once hooks detect load, lift will be allowed at full speed. (increased safety)
- **Unbalance alarm:** if load is unbalanced, sound an alarm. (increased safety)
- **Overload alarm:** in case of overload sound an alarm, send report via email. (increased safety)
- **Service notifications:** if maintenance/service needed, send an email.

## General Specifications

Single-Board Computer _____	Cortex-A53 64 bits / 512 MB LPDDR2	Input Source _____	110/230Vac
Radio Frequency Communication _____	868.95 / 904 / 917.5 / 924.1 MHz	Wifi _____	802.11 b/g/n/ac dual band (2,4 y 5 GHz)
CANbus _____	1	Bluetooth _____	4.2
Inputs _____	8 (Opto-coupled)	IP-Code _____	IP-65
Outputs _____	4 (by relays)	Temperature Range _____	-20°C / 60°C
4G Modul _____	Optional	RF Antenna _____	862 to 930 MHz / 50 Ohms
Real Time Clock (RTC) _____	Yes	Dimensions _____	310 x 60 x 94 mm 12.20 x 2.36 x 3.70 inches
Internal StorageMemory _____	32GB		
Button Battery for RTC _____	CR2032		

