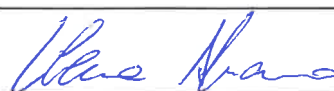


|                       |  |   |
|-----------------------|--|---|
| PROJECT NAME          | Behavioral of the device present in the our module |   |
| PROTOTYPE DESCRIPTION | MOL Antenna System                                 |   |
| DOCUMENT NAME         | CERT-001-0056                                      |   |
| FIRST CO# REFERENCE   | n.a.   |   |
| TEST EXECUTOR         | Clema Adriano                                      |  |
| DATE OF EXECUTION     | 2017-03-15   |   |

## AIM OF THE DOCUMENT

Explain the architecture present on our module antenna MOL.

## ANALYSIS

SIRIUS RFID Base Station - MOL-A it is a small I/O board. These devices present:

- N°05 input non isolated
- N°07 output non isolated
- N°01 CAN connection
- N°02 antenna connector

This board it is the only dispositive were it is possible to connect an antenna. On the device it is present an IC, code HTRC110 that it is responsible to manage and decode the data from-to the antenna that it is realized with a simple coil. The carry frequency of that device it is 125 KHz and it is manage by a microcontroller installed on the board. The diagram block of the system it is reported in Figure 2. The receiver device it is only a passive component, so it do not require power supply or I/O connection.

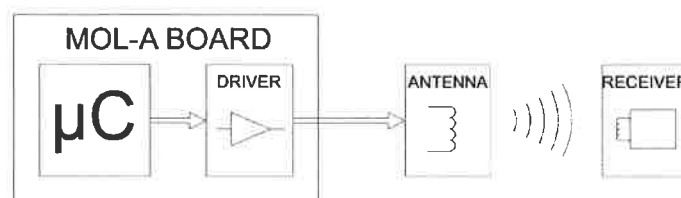


Figure 1 : Bloch diagram of the communication between MOL-A and pallet tag

\*\*\*End of the Document\*\*\*

Note: use red parts as a guide for compilation, but delete them before to officialize the document.