# Documentation of the Arduino Factory Setup Device

This code is provided as an example of a small arduino device that can be used to program the different PAYG devices in factory (e.g. from a CSV file in an SD card)

## Hardware

### Connections

- The Factory Controller and the OpenPAYGO Controller communicate through the UART connection of the Arduino, whatever model you use
- If the Arduino used as an OpenPAYGO controller is an Arduino Pro Mini 3,3V, set the baud rate to 4800, otherwise 9600

## Software

### Functions

- Sends through UART the Secret Key, the serial number and the starting code (1s delay between each) as follow:
    - #SN 123456789 [input is a uint32_t]
    - #SK 12 34 56 78 9a a5 b6 c5 d8 d8 d8 d8 d8 d8 d8 d8 [input is a unsigned char[16] printed in hexadecimals]
    - #SC 123456789 [input is a uint32_t]
- Blinks three times once it has been sent

### Comments

- The space between the ":" and the first character must be included
- Careful to not include space after the code as it will be understood as a regular character
- Serial number can be less than 9 digits