

# PDM

SKU:U089



## Description

**PDM mini Unit** is a digital MEMS silicon-based microphone based on PDM (Pulse Density Modulation) signal. The microphone has high signal-to-noise ratio, high sensitivity, low power consumption, anti-radio frequency interference, smooth frequency response and other characteristics. It automatically switches the microphone state according to the clock frequency (power down/activate/sleep)and can be widely used for audio data collection on wearable devices and smart digital devices.

## Product Features

- I2S PORT,PDM encoding output (CLK/DAT)
- High sensitivity, high signal to noise ratio
- Low power consumption
- Anti-radio frequency interference
- Compatible with LEGO

## Include

- 1x PDM mini Unit
- 1x HY2.0 4P Cable(5CM)

## Applications

- Spectrum Analyzer
- Recorder
- Noise meter

## Specification

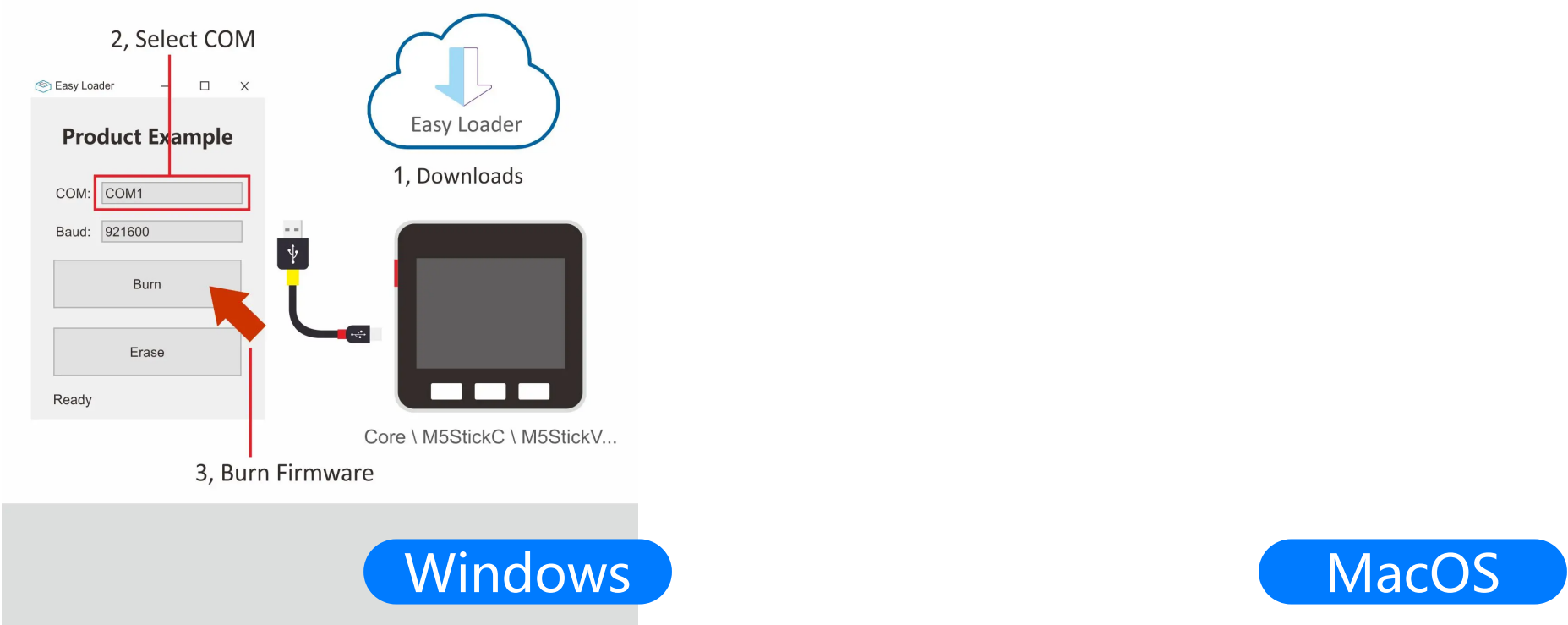
| Resources                 | Parameter                             |
|---------------------------|---------------------------------------|
|                           |                                       |
| Sensitivity               | 94dB SPL@1KHz Nom.: -22dBFS           |
| Signal to Noise Ratio     | 94dB SPL@1KHz,A-weighted Nom.: 61.4dB |
| Total Harmonic Distortion | 100dB SPL@1KHz Nom.: 1%               |
| Working voltage range     | 1.6 V to 3.6 V                        |
| Working Current           | 600μA                                 |
| Net Weight                | 4g                                    |
| Gross Weight              | 8g                                    |
| Product Size              | 24*24*13mm                            |
| Package Size              | 35*36*18mm                            |
| Case material             | Plastic(PC)                           |

## Related Link

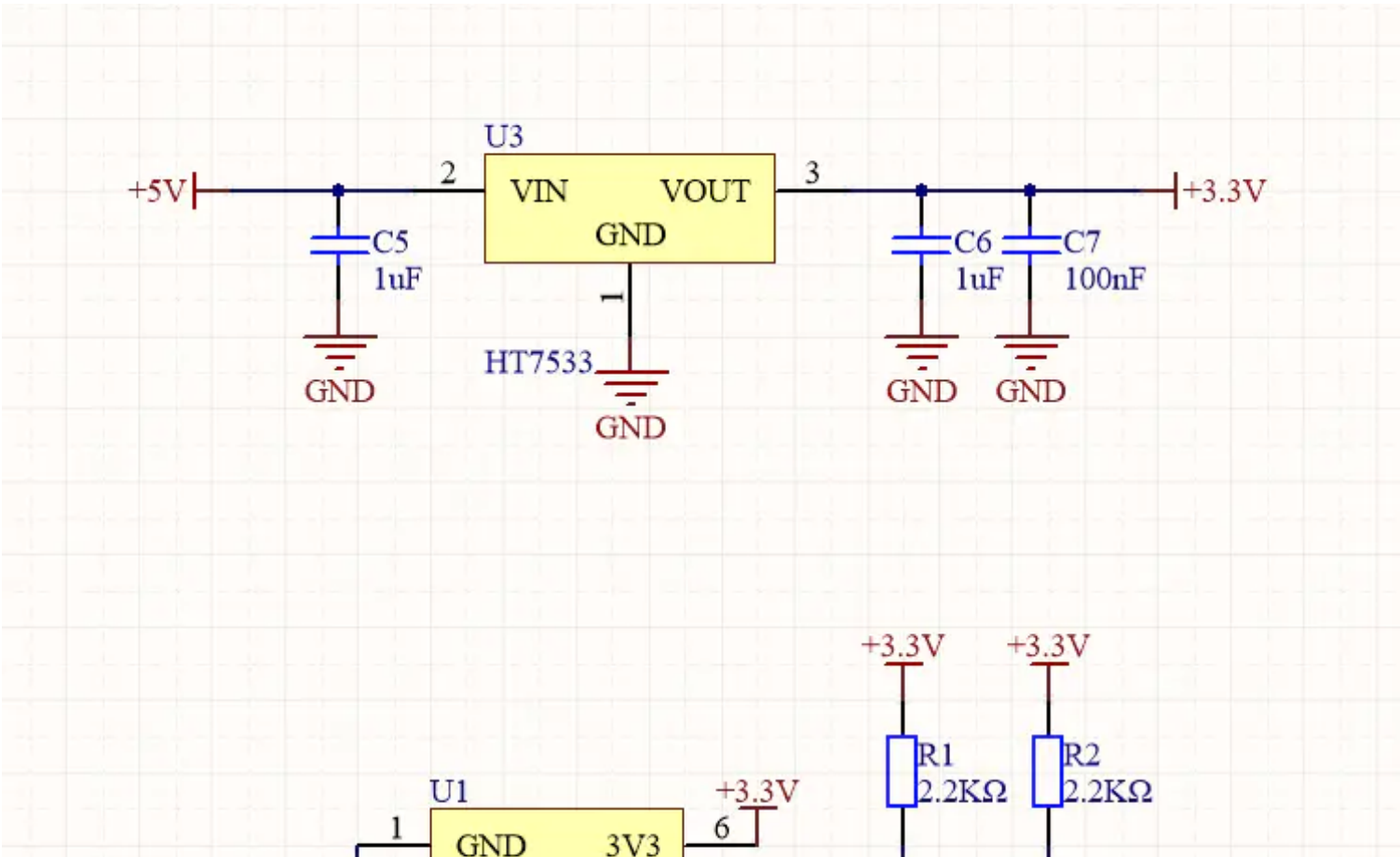
- **Datasheet**
  - [SPM1423](#)

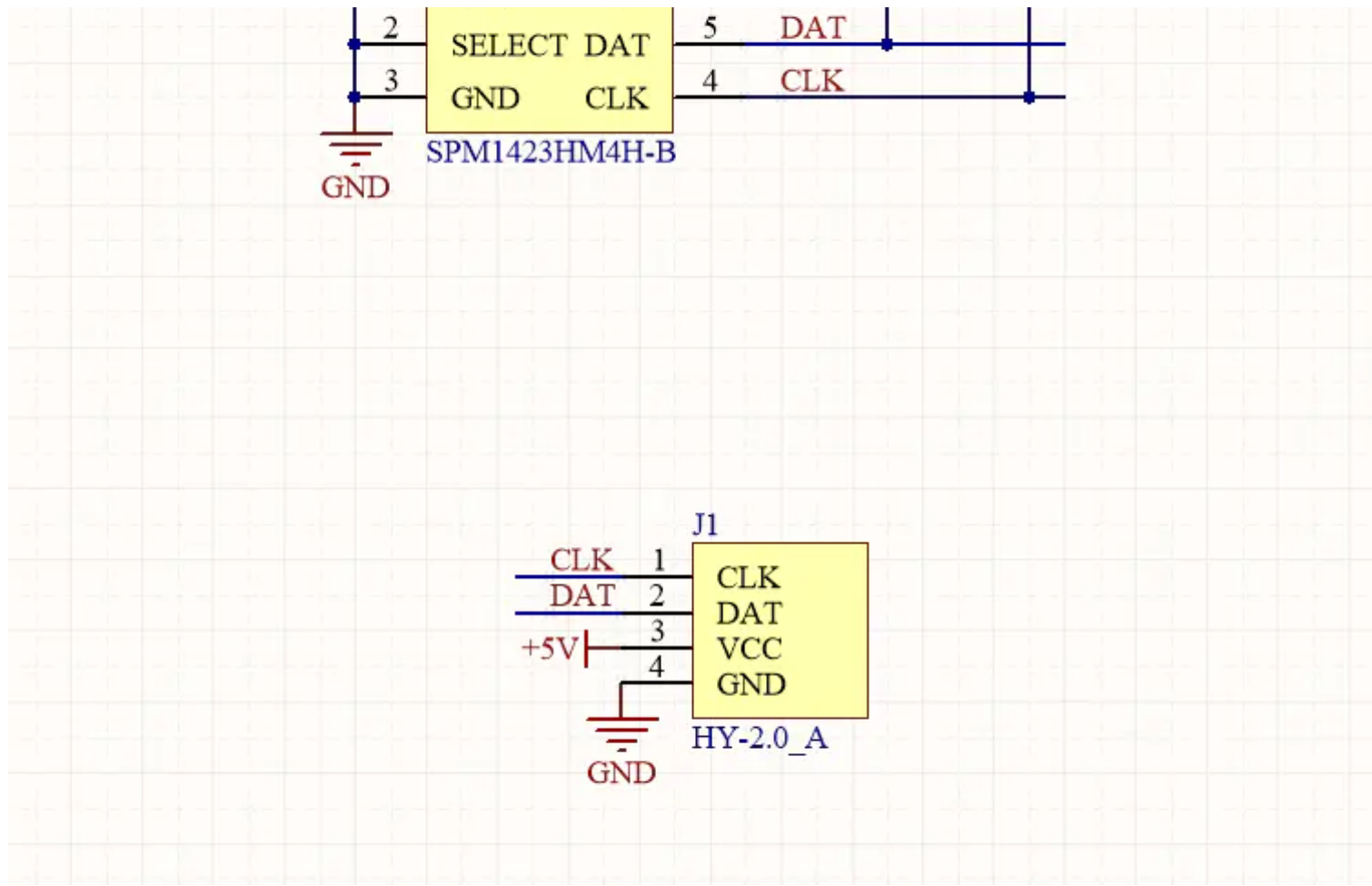
## EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host [Please click here to view the CP210X driver installation tutorial](#), M5StickC/V/T/ATOM series can be used without driver)



## Schematic





# Example

## 1. Arduino

Please click [here](#) to download Arduino Code.

Last updated: 2020-12-14

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