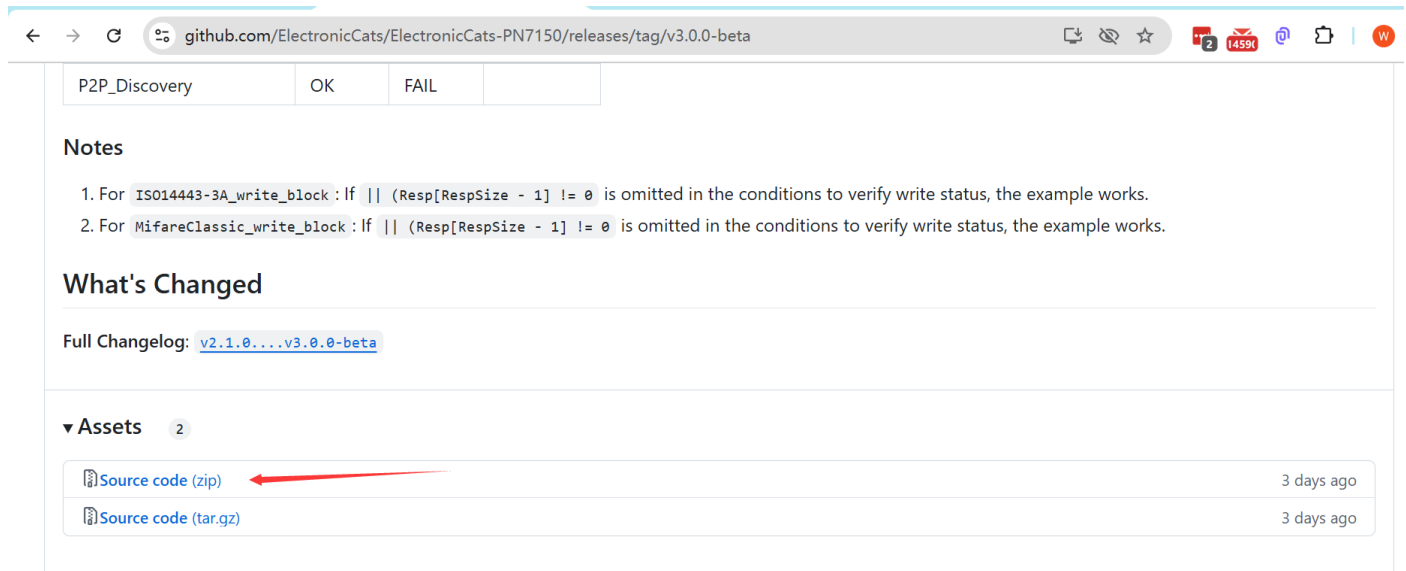


ESP32 and PN7160 I2C in Arduino IDE

1. Download PN7160 library for Arduino

<https://github.com/ElectronicCats/ElectronicCats-PN7150/releases/tag/v3.0.0-beta>



← → ↻ github.com/ElectronicCats/ElectronicCats-PN7150/releases/tag/v3.0.0-beta

P2P_Discovery OK FAIL

Notes

1. For `ISO14443-3A_write_block : if || (Resp[RespSize - 1] != 0` is omitted in the conditions to verify write status, the example works.
2. For `MifareClassic_write_block : if || (Resp[RespSize - 1] != 0` is omitted in the conditions to verify write status, the example works.

What's Changed

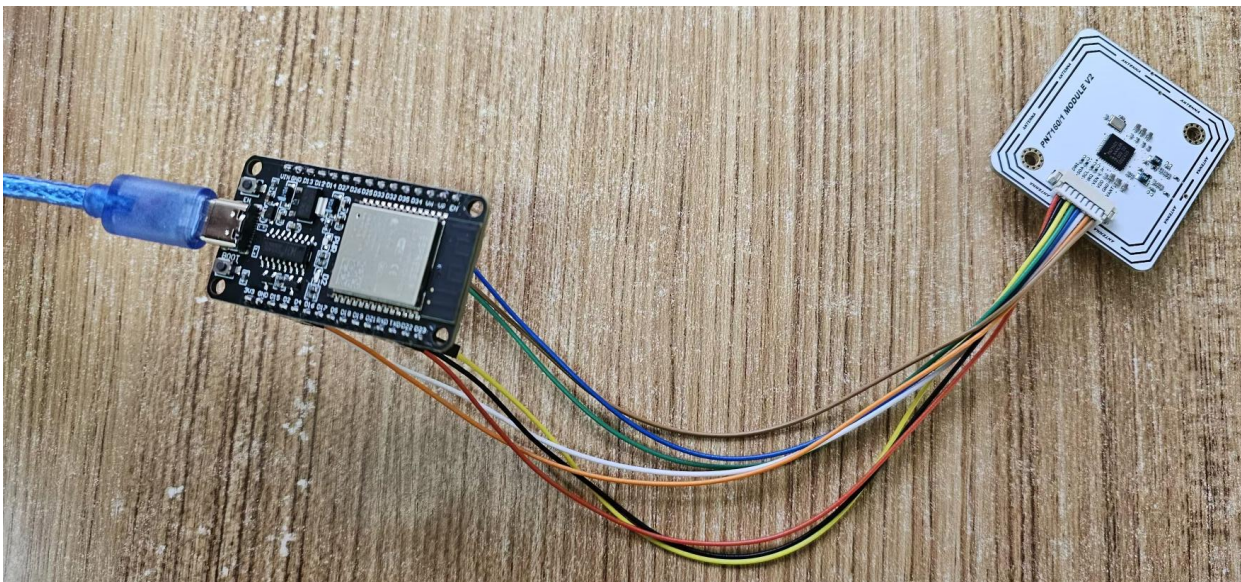
Full Changelog: [v2.1.0...v3.0.0-beta](#)

▼ Assets 2

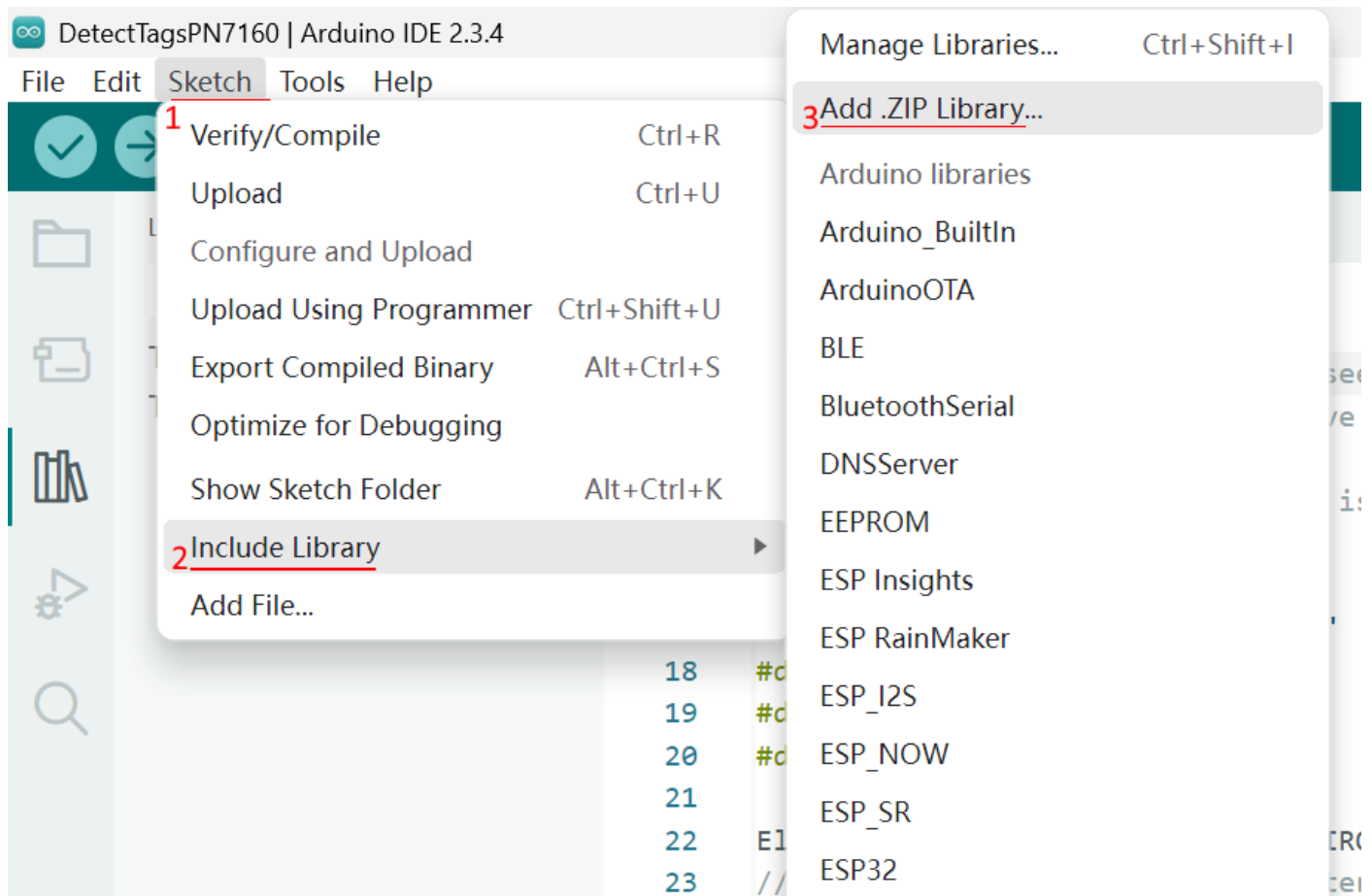
- Source code (zip) 3 days ago
- Source code (tar.gz) 3 days ago

2. Hardware connection

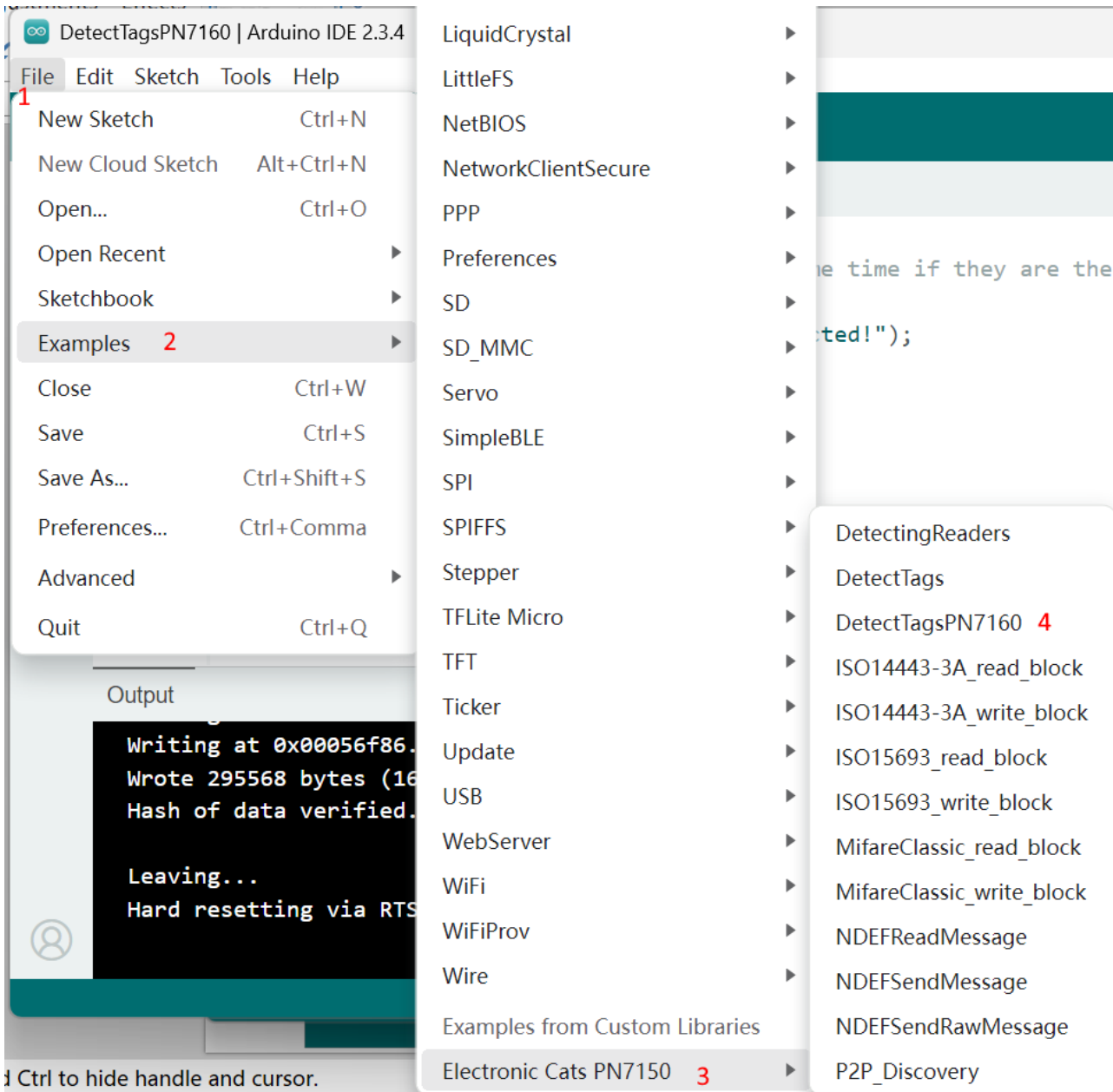
PN7160	ESP32_DEVKIT	ESP32-WROOM-32
DWL	D19	GPIO19
SDA	D21	GPIO21
SCL	D22	GPIO22
IRQ	D14	GPIO14
VEN	D13	GPIO13
VDD	3V3	
GND	GND	
VANT	5V	



3. Arduino IDE 2.3 add Library



4. Open the Example Code



5. Modify the code and upload

```
DetectTagsPN7160.ino
10  *
11  * This code is beerware; if you see me (or any other collaborator
12  * member) at the local, and you've found our code helpful,
13  * please buy us a round!
14  * Distributed as-is; no warranty is given.
15  */
16
17  #include "Electroniccats_PN7150.h"
18  #define PN7160_IRQ (14)
19  #define PN7160_VEN (13)
20  #define PN7160_ADDR (0x28)
21
22  Electroniccats_PN7150 nfc(PN7160_IRQ, PN7160_VEN, PN7160_ADDR, PN7160); // fourth additional a
23  // creates a global NFC device interface object, attached to pins 11 (IRQ) and 13 (VEN) and us
24
25  // Function prototypes
26  String getHexRepresentation(const byte* data, const uint32_t numBytes);
27  void displayCardInfo();
28
29  void setup() {
```

Output

Ln 71, Col 17 Node32s on COM5 [not connected] 2

6. Open Serial Monitor and Read the tag

```
DetectTagsPN7160.ino
1  /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *   Salvador Mendoza - @Netxing - salmg.net
5  *   For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
9  * March 2020
10 *
11 * This code is beerware; if you see me (or any other collaborator
12 * member) at the local, and you've found our code helpful,
13 * please buy us a round!
14 * Distributed as-is; no warranty is given.
15 */
16
```

DetectTagsPN7160 | Arduino IDE 2.3.4

File Edit Sketch Tools Help

Node32s

DetectTagsPN7160.ino

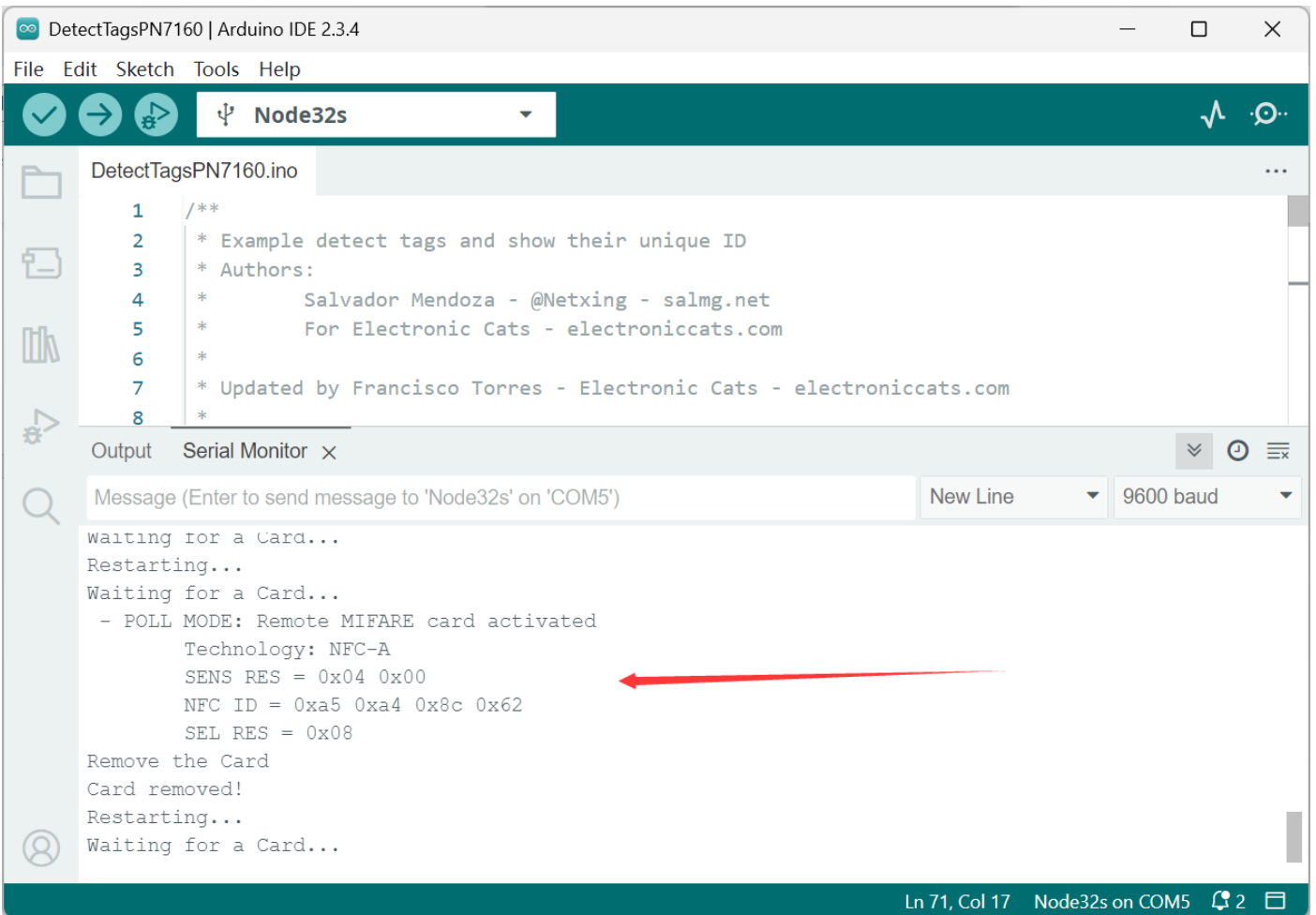
```
1 /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *     Salvador Mendoza - @Netxing - salmg.net
5  *     For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
```

Output Serial Monitor x

Message (Enter to send message to 'Node32s' on 'COM5') New Line 9600 baud

waiting for a Card...
Restarting...
Waiting for a Card...
- POLL MODE: Remote MIFARE card activated
Technology: NFC-A
SENS RES = 0x04 0x00
NFC ID = 0xa5 0xa4 0x8c 0x62
SEL RES = 0x08
Remove the Card
Card removed!
Restarting...
Waiting for a Card...

Ln 71, Col 17 Node32s on COM5 2

The image shows the Arduino IDE interface. At the top, the window title is "DetectTagsPN7160 | Arduino IDE 2.3.4". Below the title bar is a menu bar with "File", "Edit", "Sketch", "Tools", and "Help". A toolbar contains icons for checking, running, and uploading, along with a dropdown menu set to "Node32s". The main editor area shows a file named "DetectTagsPN7160.ino" with the following code:

```
1 /**
2  * Example detect tags and show their unique ID
3  * Authors:
4  *     Salvador Mendoza - @Netxing - salmg.net
5  *     For Electronic Cats - electroniccats.com
6  *
7  * Updated by Francisco Torres - Electronic Cats - electroniccats.com
8  *
```

Below the editor is the "Output" window, which is currently displaying the "Serial Monitor". The serial monitor shows the following output:

```
waiting for a Card...
Restarting...
Waiting for a Card...
- POLL MODE: Remote MIFARE card activated
Technology: NFC-A
SENS RES = 0x04 0x00
NFC ID = 0xa5 0xa4 0x8c 0x62
SEL RES = 0x08
Remove the Card
Card removed!
Restarting...
Waiting for a Card...
```

A red arrow points to the line "NFC ID = 0xa5 0xa4 0x8c 0x62". At the bottom of the serial monitor, it says "Ln 71, Col 17 Node32s on COM5" and has a notification icon with the number "2".