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| NodeMCU |

| |

| D1 (GPIO5) |-------------> SDA (I2C data)

| D2 (GPIO4) |-------------> SCL (I2C clock)

| 3.3V |-------------> VCC (Power)

| GND |-------------> GND (Ground)

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RFID Module

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| |

SDA | |

+-----+---| SDA |

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| | | |

| | | |

| +---| SCL |

| OLED | |

| Display| |

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Certainly! Here's a pin documentation that outlines how to connect an RFID module and an OLED 1.3" display with I2C interface to a NodeMCU board for displaying the card number:

RFID Module:

- SDA (Serial Data) pin of the RFID module should be connected to the D1 (GPIO5) pin of the NodeMCU board.

- SCL (Serial Clock) pin of the RFID module should be connected to the D2 (GPIO4) pin of the NodeMCU board.

- VCC (Power) pin of the RFID module should be connected to the 3.3V pin of the NodeMCU board.

- GND (Ground) pin of the RFID module should be connected to the GND pin of the NodeMCU board.

OLED 1.3" Display:

- SDA (I2C data) pin of the OLED display should be connected to the D1 (GPIO5) pin of the NodeMCU board.

- SCL (I2C clock) pin of the OLED display should be connected to the D2 (GPIO4) pin of the NodeMCU board.

- VCC (Power) pin of the OLED display should be connected to the 3.3V pin of the NodeMCU board.

- GND (Ground) pin of the OLED display should be connected to the GND pin of the NodeMCU board.

By connecting the RFID module and OLED display to the NodeMCU board as described above, you will be able to display the card number on the OLED display based on the RFID data read by the module.

Please note that you will also need to install relevant libraries and write appropriate code to control the OLED display and read the RFID data from the module using the NodeMCU board.

Asdfhgjkl;l;ll;

To combine an OLED 1.3" display and an RFID module with a NodeMCU board to display the card number, you'll need to follow these steps:

1. Connect the OLED Display:

- Connect the SDA (I2C data) pin of the OLED display to the D1 (GPIO5) pin of the NodeMCU board.

- Connect the SCL (I2C clock) pin of the OLED display to the D2 (GPIO4) pin of the NodeMCU board.

- Connect the VCC (Power) pin of the OLED display to the 3.3V pin of the NodeMCU board.

- Connect the GND (Ground) pin of the OLED display to the GND pin of the NodeMCU board.

2. Connect the RFID Module:

- Connect the SDA (Serial Data) pin of the RFID module to the D1 (GPIO5) pin of the NodeMCU board.

- Connect the SCL (Serial Clock) pin of the RFID module to the D2 (GPIO4) pin of the NodeMCU board.

- Connect the VCC (Power) pin of the RFID module to the 3.3V pin of the NodeMCU board.

- Connect the GND (Ground) pin of the RFID module to the GND pin of the NodeMCU board.

3. Install Libraries:

- Install the necessary libraries for both the OLED display and the RFID module. You can search for libraries specific to your OLED display and RFID module.

- Make sure to install the libraries in your Arduino IDE or platform of choice.

4. Write the Code:

- Write code to initialize the OLED display and RFID module, and set up the necessary configurations.

- Implement the logic to read the card number from the RFID module.

- Display the card number on the OLED display using appropriate functions or methods provided by the OLED library.

5. Upload and Run the Code:

- Connect your NodeMCU board to your computer.

- Open your Arduino IDE or preferred platform, copy the code into a new sketch, and upload it to the NodeMCU board.

- Monitor the serial output to check for any errors or debugging messages.

- The OLED display should show the card number when a card is detected by the RFID module.

By following these steps, you will be able to combine the OLED 1.3" display and RFID module with a NodeMCU board to display the card number on the OLED screen when a card is scanned by the RFID module.