ONE C MINICORE

ARD-One-C-MC

JOY-IT

1. GENERAL INFORMATION

Dear customer,
thank you for purchasing our product. In the following we will show you what you need to bear in mind when commissioning and using .

Should you encounter any unexpected problems during use, please do not hesitate to contact us.

The ARD-ONE-C-MC board is the right microcontroller for beginners who want to get into the world of programming quickly and easily.
Its ATMega328PB microcontroller offers you enough power to implement your ideas and projects. It measures 68 x 53 mm and, with 16 digital inputs/ outputs and 8 analog inputs, has many connection options.
Compared to the ARD_R3DIP, the ARD-ONE-C-MC has 2 additional digital pins and 2 analog pins as well as an additional hardware I2C and SPI interface in addition to the USB-C interface. The board can also be programmed via the Arduino IDE and is compatible with most Arduino libraries.

DC-In 7-12V

USB-C Programming interface 5 V voltage input

Reset-button

ADC6 D20 — A6
MOSI1 ADC7 D21 — A7
SDA1 D23 — 23
SCL1 D24 — 24

IOREF / 5V — IOREF
RESET — RES
+3V3 — 3.3V
+5V — 5V
GND — GND
GND — GND
VIN — Vin

MISO1 ADC0 D14 — A0
SCK1 ADC1 D15 — A1
ADC2 D16 — A2
ADC3 D17 — A3
SDA0 ADC4 D18 — A4/SDA
SCL0 ADC5 D19 — A5/SCL

A5/SCL — D19 ADC5 SCL0
A4/SDA — D18 ADC4 SDA0
AREF — AREF
GND — GND
13/SCLK — D13 SCK0
12/MISO — D12 MISO0
~11/MOSI — ~D11 MOSI0
~10 — ~D10
~9 — ~D9
8 — D8
7 — D7
~6 — ~D6
~5 — ~D5
4 — D4
~3 — ~D3
2 — D2
TX 1 — D1 RX
RX 0 — D0 TX

POWER

ANALOG IN

DIGITAL (PWM~)

ARD-ONE-C-MC

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ICSP

+5V
~D11
GND
D12
D13
RESET

i ~ PWM pins

The Arduino IDE is usually used to program the board.
You can download them here:
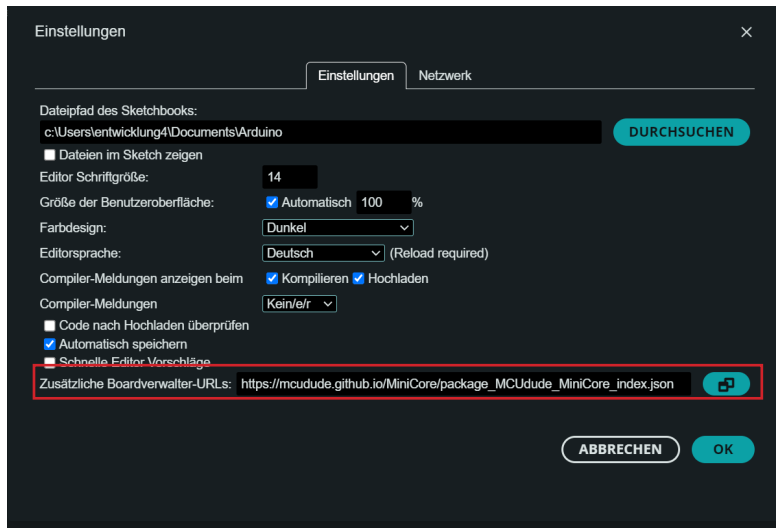https://www.arduino.cc/en/software

Once you have downloaded and installed the software, you can start it.

Before you can load a sketch, you need to make a few settings for the board.

First add this additional board administrator URL under **File** → **Settings**:

https://mcudude.github.io/MiniCore/package_MCUdude_MiniCore_index.json

Now you can search for minicore under **Tools** → **Board** → **Board management**...
and install the **MiniCore** board manager from **MCUDude**.
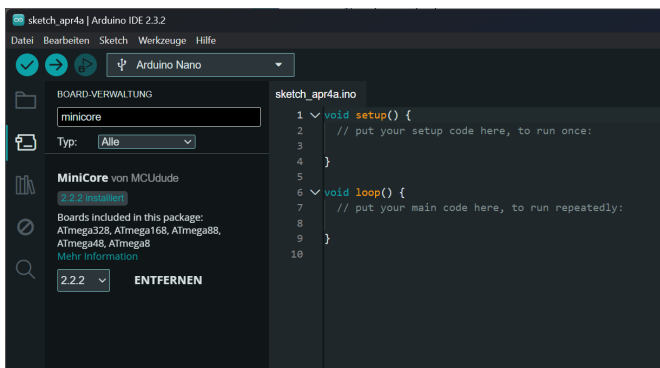
Now select the appropriate board: **Tools → Board → Minicore → ATmega328** Under **Tools → Port**, select the port to which your device is connected. At **Tools → Variant**, select **328PB**.
And at **Tools → Programmer** select **AVRISP mkll**
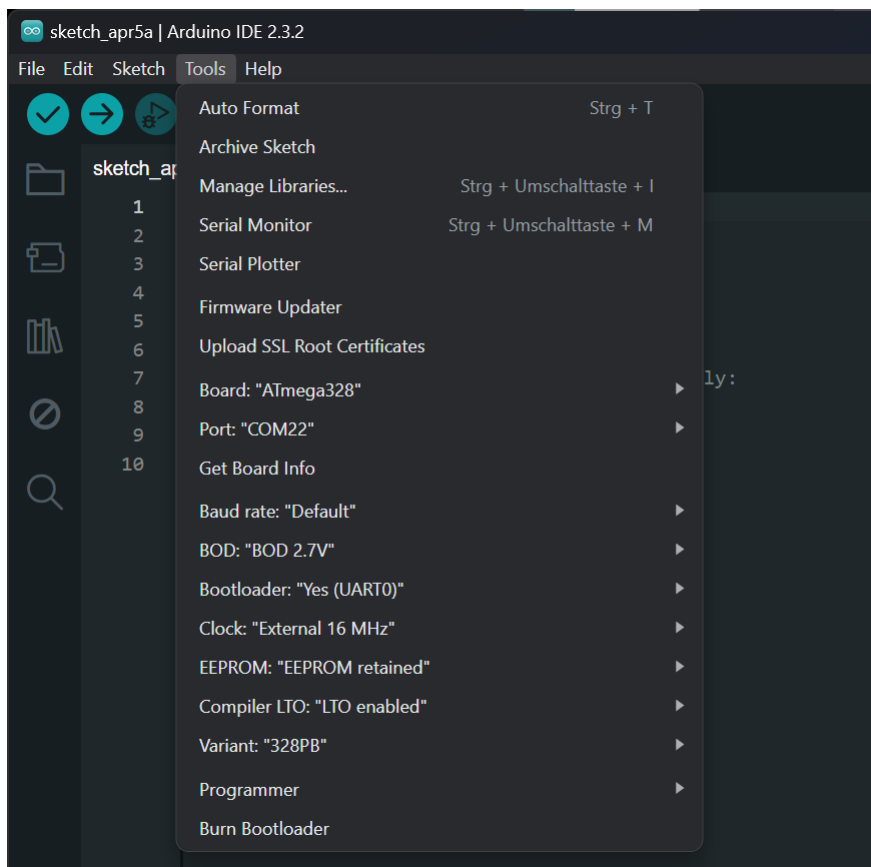
4. CODE EXAMPLE

To test your configuration, you can run a simple code example on your board. to do this, open the file under **File → Examples → 01.Basics → Blink**
Now upload the example by clicking on **Upload**.
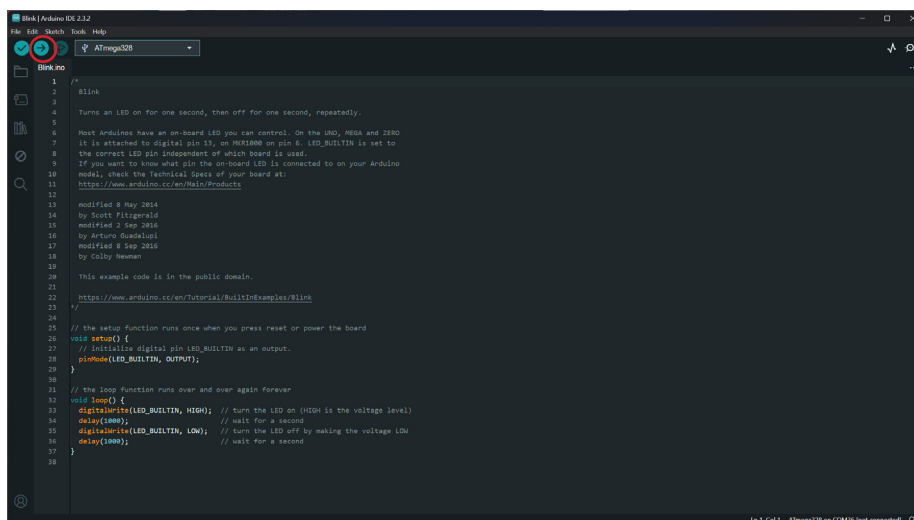
This example code makes the LED on the board flash.

5. INFORMATION & TAKE-BACK OBLIGATIONS

Our information and take-back obligations under the German Electrical and Electronic Equipment Act (ElektroG)

Symbol on electrical and electronic equipment:
This crossed-out garbage can means that electrical and electronic appliances do not belong in household waste. You must hand in the old appliances at a collection point. Before handing them in, you must separate used batteries and accumulators that are not enclosed by the old appliance.

Return options:
As an end user, you can hand in your old appliance (which essentially fulfills the same function as the new appliance purchased from us) for disposal free of charge when purchasing a new appliance. Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities regardless of whether you have purchased a new appliance.

Possibility of return at our company location during opening hours:
SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn

Return option in your area:
We will send you a parcel stamp with which you can return the device to us free of charge. To do so, please contact us by e-mail at Service@joy-it.net or by telephone.

Packaging information:
Please pack your old appliance securely for transportation. If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

6. SUPPORT

We are also there for you after your purchase. If you still have any questions or problems arise, we are also available by e-mail, telephone and ticket support system.

E-Mail: service@joy-it.net
Ticket-System: https://support.joy-it.net
Phone: +49 (0)2845 9360 - 50 (Mon - Thur: 09:00 - 17:00 o'clock,
                                            Fri: 09:00 - 14:30 o'clock)

For further information, please visit our website:
www.joy-it.net