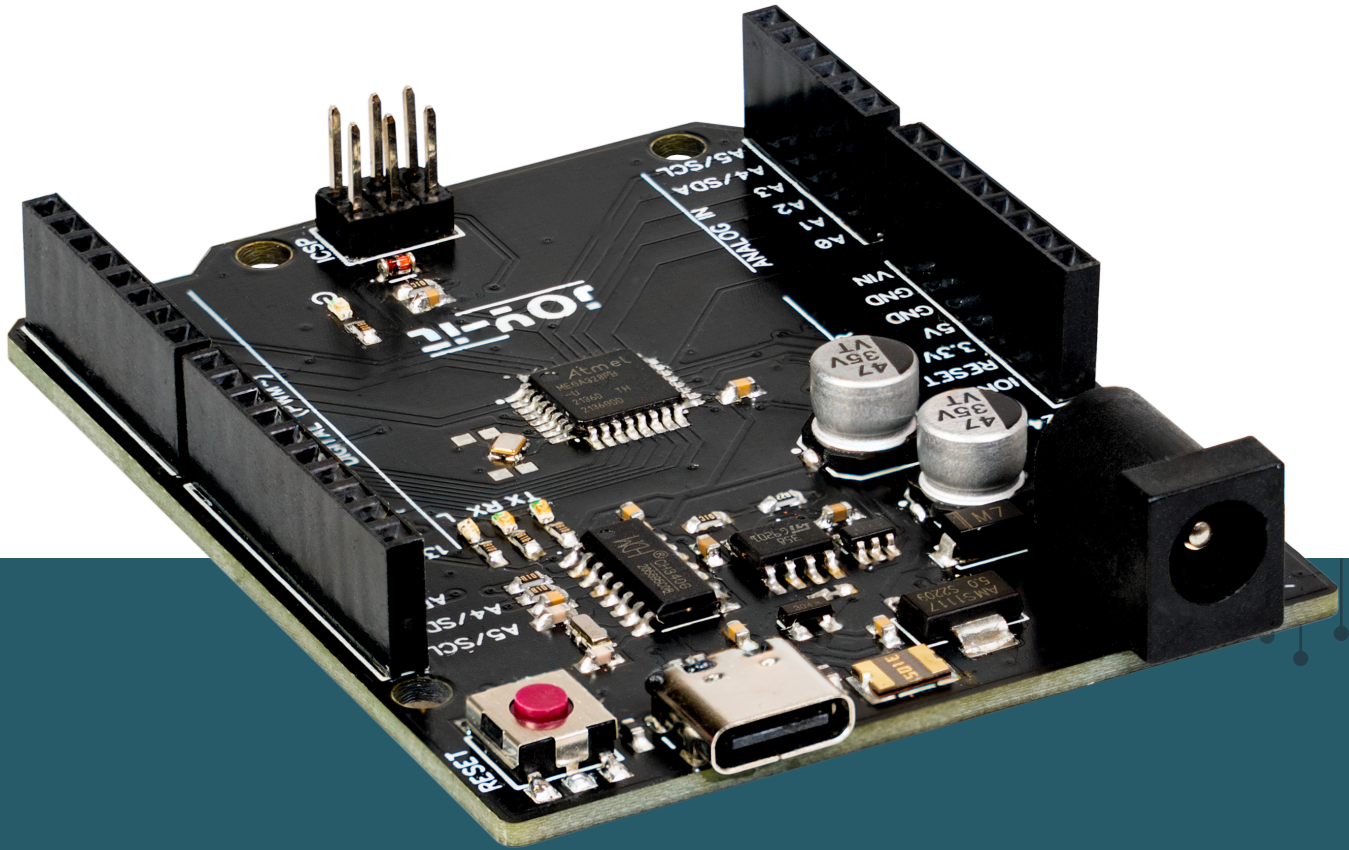




ONE C

ARD-One-C

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.

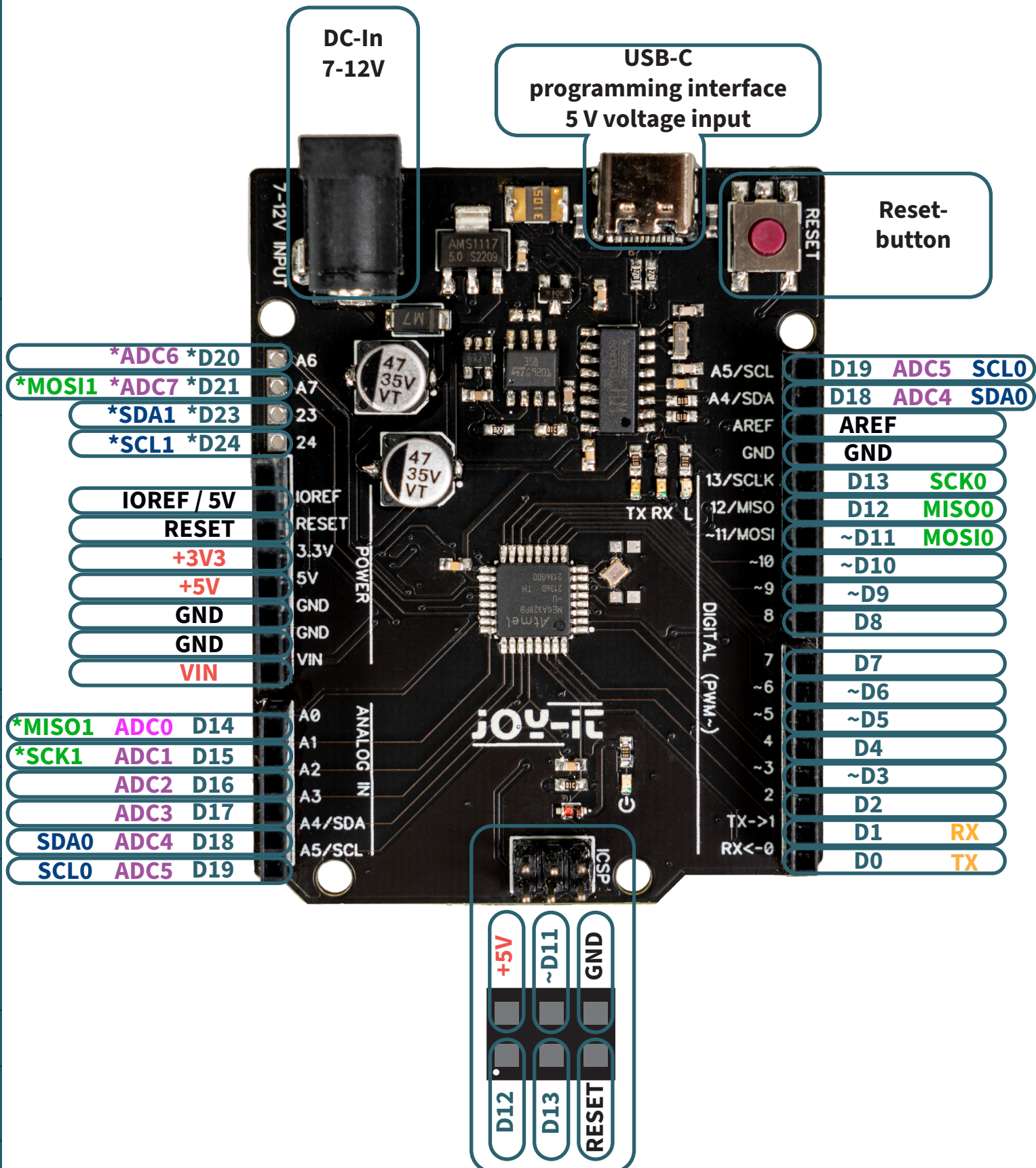
The ARD-ONE-C board is the right microcontroller for beginners who want to get into the world of programming quickly and easily.

Its ATmega328PB microcontroller offers you enough power for the implementation of your ideas and projects. It measures 68 x 53 mm and, with 14 digital inputs/outputs and 6 analog inputs, has many connection options. The ARD-ONE-C is fully Arduino UNO compatible.



Please make sure that you use the appropriate manual for your specific board - either ARD-ONE-C or ARD-ONE-C-MC. Both boards are very similar, but require different configurations of the development environment. Using the wrong instructions will result in the board not working properly.

2. DEVICE OVERVIEW



~ PWM pins

* Can only be used with Minicore bootloader (ARD-One-C-MC)

3. SOFTWARE SETUP

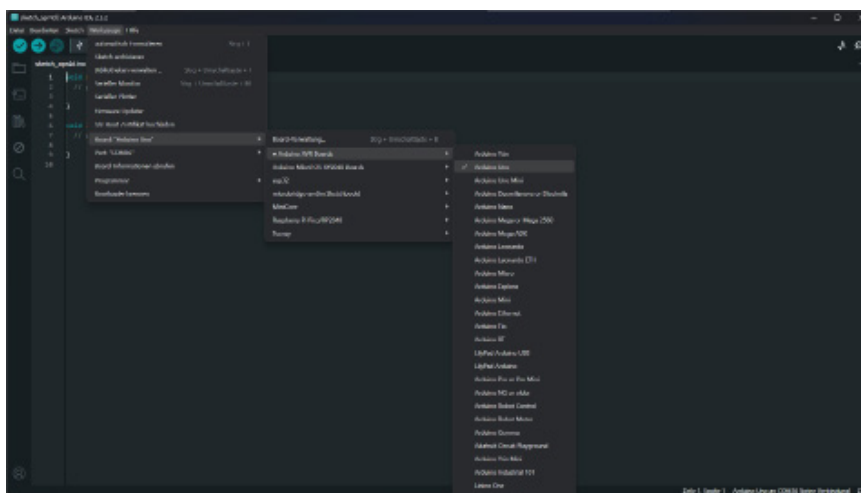
The Arduino IDE is usually used to program the board.
You can download it here:

<https://www.arduino.cc/en/software>

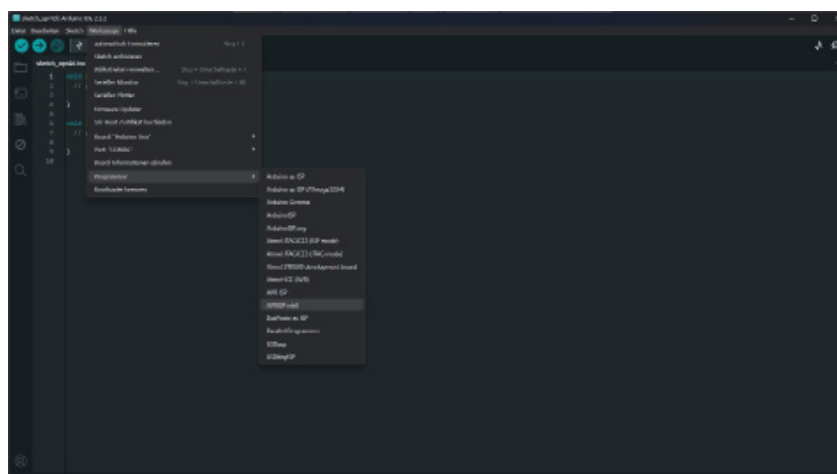
Once you have downloaded and installed the software, you can start it.

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

Select **Tools** → **Board** → **Arduino AVR Boards** → **Arduino UNO**.



Also select the port to which the device is connected under **Tools** → **Port**. And select **AVRISP mkII** as the **programmer**.

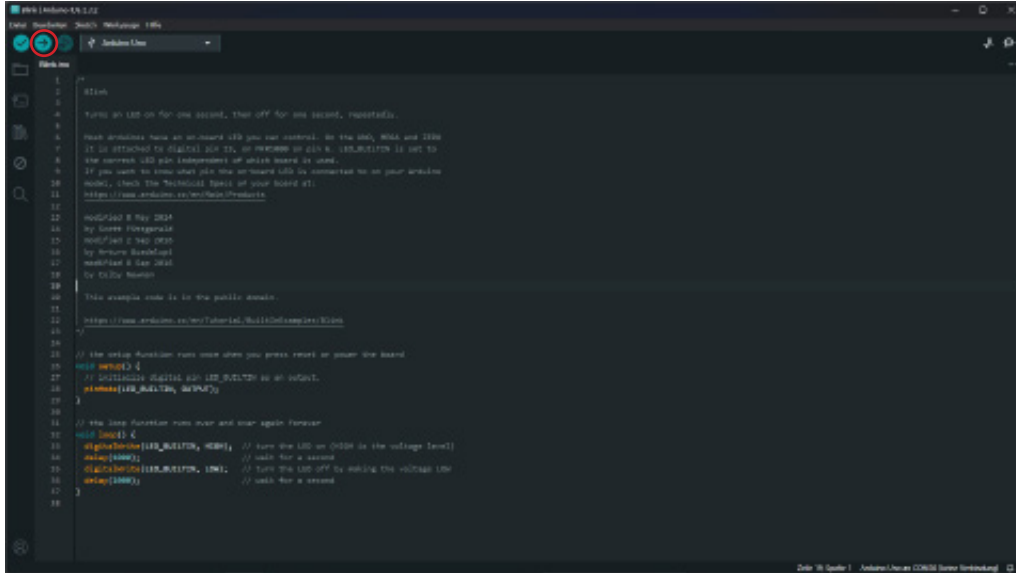


4. CODE EXAMPLE

To test your configuration, you can run a simple code example on your ONE-C.

to do this, open the file under **File** → **Examples** → **01.Basics** → **Blink**

Now upload the example by clicking on **Upload**.



```
1 // Blink
2
3 // Turns an LED on for one second, then off for one second, repeatedly.
4
5 // Note: this sketch uses an Arduino Uno. If you are using a different board, you may need to
6 // change the pin number to match the pin you are using.
7 // It is attached to digital pin 13, so pinMode(13, OUTPUT) is set to
8 // the correct LED pin independent of which board is used.
9 // If you want to know what pin the Arduino Uno is connected to on your Arduino
10 // board, check the Technical Specs of your board at:
11 // https://www.arduino.cc/en/Main/Products
12
13 // Modified 8 May 2014
14 // by Simon St Laurent
15 // Modified 8 May 2014
16 // by Jeremy Blum
17 // Modified 8 Sep 2014
18 // by Chris Mendenhall
19
20 // This example code is in the public domain.
21 //
22 // https://www.arduino.cc/en/Tutorial/BuiltInExamples/Blink
23
24 //
25 // The setup function runs once when you press reset or power the board
26 //
27 // Setup: initialize digital pin LED_BUILTIN as an output.
28 //
29 //
30 // The loop function runs over and over again forever
31 //
32 // Turn the LED on (HIGH is the voltage level)
33 // wait for a second
34 // Turn the LED off by making the voltage low
35 // wait for a second
36 //
37
38 void setup() {
39   pinMode(LED_BUILTIN, OUTPUT);
40 }
41
42 void loop() {
43   digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
44   delay(1000); // wait for a second
45   digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage low
46   delay(1000); // wait for a second
47 }
```

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

For more information, please visit our website:

www.joy-it.net