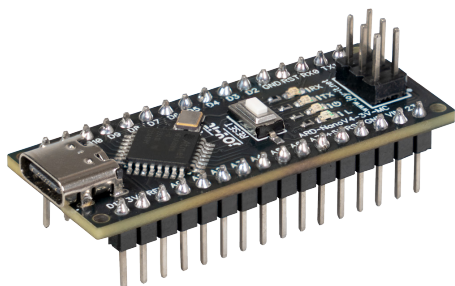


# ARD-NANOV4-3V-MC

ATmega 328PB microcontroller board with 3V logic



The ARD-Nanov4-3V-MC is a particularly small microcontroller that has been specially developed for working with breadboards, thanks to the pin header that leads out at the bottom. The integrated USB Type-C interface can be used to supply the circuit and board with power and to transfer programmes to the microcontroller. The logic level, 3.3V as standard, can be easily switched to 5V via a solder bridge. The board has 2 additional IO pins and an additional hardware I2C and SPI interface (compared to the ARD-Nano-V4-3V). The bootloader used is compatible with most existing Arduino libraries. The board also has a high-precision clock generator that is optimised for demanding applications and precise time measurements.

## MAIN FEATURES

|                                                       |                                                                           |
|-------------------------------------------------------|---------------------------------------------------------------------------|
| Microcontroller                                       | Atmel Mega328PB                                                           |
| Bootloader                                            | Minicore                                                                  |
| Clock frequency                                       | 8 MHz                                                                     |
| Deviation of the external clock (at room temperature) | $\pm 10\text{ppm}$ ( $\pm 0.001\%$ )                                      |
| Logic level                                           | 3.3 V / 5V switchable via solder bridge                                   |
| Analogue pins                                         | 8                                                                         |
| Digital pins                                          | 14 (of which 6 PWM)                                                       |
| Other special features                                | Fully Arduino compatible, high-precision clock frequency, USB-C interface |

## TECHNICAL SPECIFICATIONS

|                        |                                      |
|------------------------|--------------------------------------|
| DC current per I/O pin | 40 mA                                |
| Memory                 | 32 kB (2 kB for bootloader)          |
| SRAM                   | 2 kB                                 |
| EEPROM                 | 1 kB                                 |
| Operating voltage      | Vin-PIN: 7 - 12 V<br>USB Type-C: 5 V |
| Power requirement      | approx. 30 mA                        |

## FURTHER INFORMATION

|                       |                     |
|-----------------------|---------------------|
| Dimensions            | 18.5 x 47 x 18.5 mm |
| Weight                | 7 g                 |
| Article number        | ARD-NanoV4-3V-MC    |
| Scope of delivery     | ARD-NanoV4-3V-MC    |
| EAN                   | 4250236830148       |
| Customs tariff number | 8542319000          |