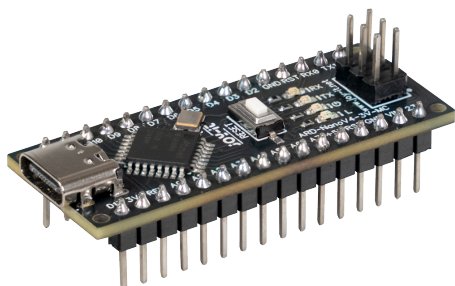# JOY-iT

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)	±10ppm (±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 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