

ARDUINO NANO EVERY WITH HEADERS

Code: ABX00033

This board is based on the [ATMega4809](#) microcontroller.

Clock 20MHz

Flash 48KB

SRAM 6KB

EEPROM 256byte

A [ATSAMD11D14A](#) Processor takes care of the USB to SERIAL communication and it is connected to the following pins of the ATMega4809 microcontroller.

| ATMega4809 Pin | ATMega4809 Acronym | SAMD11 Pin | SAMD11 Acronym | Description |
|----------------|--------------------|------------|----------------|----------------------------|
| 9 | PB05 | 15 | PA22 | SAMD11 TX -> ATMega4809 RX |
| 8 | PB04 | 16 | PA23 | ATMega4809 TX -> SAMD11 RX |
| 41 | UPDI | 12 | PA15 | UPDI RX |
| | | 11 | PA14 | UPDI TX |

The board has a two 15 pins connectors - one on each side -, pin to pin compatible with the original Arduino Nano.

| Pin | Funcion | Type | Description |
|-----|---------|------------|-------------------------------------------------------|
| 1 | D13 | Digital | SPI SCK, GPIO |
| 2 | +3V3 | Power Out | Internally generated power output to external devices |
| 3 | AREF | Analog | Analog Reference; can be used as GPIO |
| 4 | A0 | Analog | ADC in; can be used as GPIO |
| 5 | A1 | Analog | ADC in; can be used as GPIO |
| 6 | A2 | Analog | ADC in; can be used as GPIO |
| 7 | A3 | Analog | ADC in; can be used as GPIO |
| 8 | A4/SDA | Analog | ADC in; I2C SDA; Can be used as GPIO |
| 9 | A5/SCL | Analog | ADC in; I2C SCL; Can be used as GPIO |
| 10 | A6 | Analog | ADC in; can be used as GPIO |
| 11 | A7 | Analog | ADC in; can be used as GPIO |
| 12 | +5V | Power Out | Internally generated power output to external devices |
| 13 | RST | Digital In | Active low reset input (duplicate of pin 18) |

| | | | |
|----|----------|----------|----------------------------------------------|
| 14 | GND | Power | Power Ground |
| 15 | VIN | Power In | Vin Power input |
| 16 | TX | Digital | USART TX; can be used as GPIO |
| 17 | RX | Digital | USART RX; can be used as GPIO |
| 18 | RST | Digital | Active low reset input (duplicate of pin 13) |
| 19 | GND | Power | Power Ground |
| 20 | D2 | Digital | GPIO |
| 21 | D3/PWM | Digital | GPIO; can be used as PWM |
| 22 | D4 | Digital | GPIO |
| 23 | D5/PWM | Digital | GPIO; can be used as PWM |
| 24 | D6/PWM | Digital | GPIO; can be used as PWM |
| 25 | D7 | Digital | GPIO |
| 26 | D8 | Digital | GPIO |
| 27 | D9/PWM | Digital | GPIO; can be used as PWM |
| 28 | D10/PWM | Digital | GPIO; can be used as PWM |
| 29 | D11/MOSI | Digital | SPI MOSI; can be used as GPIO |
| 30 | D12/MISO | Digital | SPI MISO; can be used as GPIO |