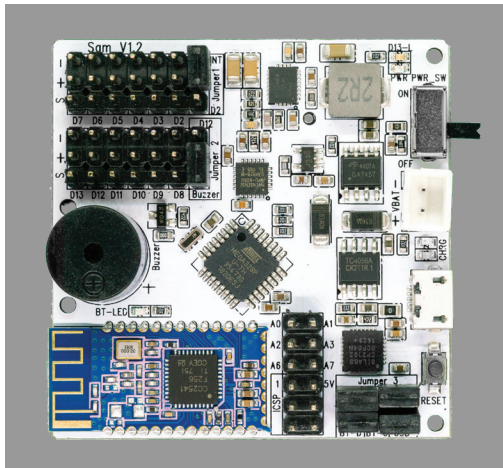


# wombotics

Arduino Board for Makers and STEM Education



## SAM01 - Arduino Nano Compatible Robotics Board



SAM01 is built for projects which need to work with the mobile app, servos and motion tracking in mind. With onboard Bluetooth Low Energy module, it is compatible with both Android and iOS.

It is ideal for building your own Bluetooth control robot, R/C car with motion tracking, Fitness Tracker, Vehicle Monitor, Home automation and much more.

### Specification

Microcontroller:	ATmega328
Bootloader:	Arduino Nano
Battery Input:	3.7-4.1V
Battery Charger:	Lithium-Ion, 3.7V
Bluetooth:	BLE - TI CC2541
Buzzer:	Built-in
MotionTracking:	MPU-6050 Six-Axis (Gyro + Accelerometer)
USB-Serial:	Silicon CP2112
Digital I/O Pins:	12
Analog I/O Pins:	6
PCB Size:	50 x 50 mm

### PIN Allocation

D2:	MPU INT (Jumper 1)
A4:	SDA - MPU
A5:	SCL - MPU
D9:	BLE TX
D10:	BLE RX
D12:	Buzzer (Jumper 2)
D13:	LED

### Resources

Github:

<http://github.com/wombotics/sam01>

USB-Serial Driver:

<http://bit.ly/cp2112-usb-serial>