

## Arduino PRIMO CORE

PRIMO CORE is a low-power coin-sized version of the PRIMO, ideal for wearables.

The PRIMO CORE is a compact device, using a Nordic nrf52832 chip with Bluetooth smart (BLE 4.0) and NFC-A tag functions, and also integrated motion and environmental sensors. The low power consumption permits powering the Primo Core with a coin cell battery. The Arduino PRIMO CORE can be mounted on a breakout board to extend its functionalities.

### INTERMEDIATE





# Arduino PRIMO CORE

## GENERAL

---

Operating Voltage	3V~3.3V
PCB Size	32 x 32mm
Bluetooth Smart (BLE 4.0)	TX power up to +4dBm-96dBm sensitivity in BLE mode
Product Code	A000138

## SENSORS&ACTUATORS

---

Humidity sensor	ST HTS221
Temperature sensor	ST HTS221
3-axis Accelerometer	ST LSM6DS3

## NFC-A LISTEN MODE OPERATION

---

13.56 MHz input frequency  
Bit rate 106 kbps  
Wake-on-field low power field detection (SENSE) mode

## PRIMO NFC ANTENNA (optional)

---

PCB Size 32 x 32mm





# Arduino PRIMO CORE

## **Accelerometer -**

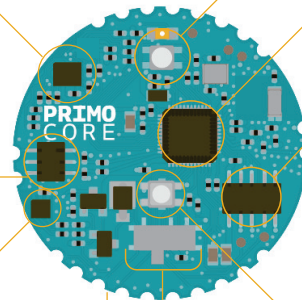
Multifunction 3D digital accelerometer and a 3D digital gyroscope.

## **NFC Connector -**

You can connect the external NFC Antenna through this connector.

**Sensor -** Temperature and Humidity sensor.

**Battery Connector -** The connector on the back of your board is used for powering it through a coin Battery.



**RGB LED -** RGB Light Emitting Diodes (LEDs). Diode that illuminates when electricity passes through it.

**nRF52 -** The main board microcontroller, managing the BLE and the NFC.

**SWD Connector -** You can use it to program and debug the board with an Arduino PRIMO or another external programmer.

**Reset Button -** Resets the nRF52 microcontroller.

**Power Switch -** Used for powering your Arduino board.