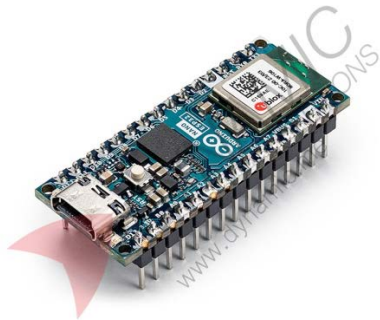


Arduino Nano ESP32 with headers



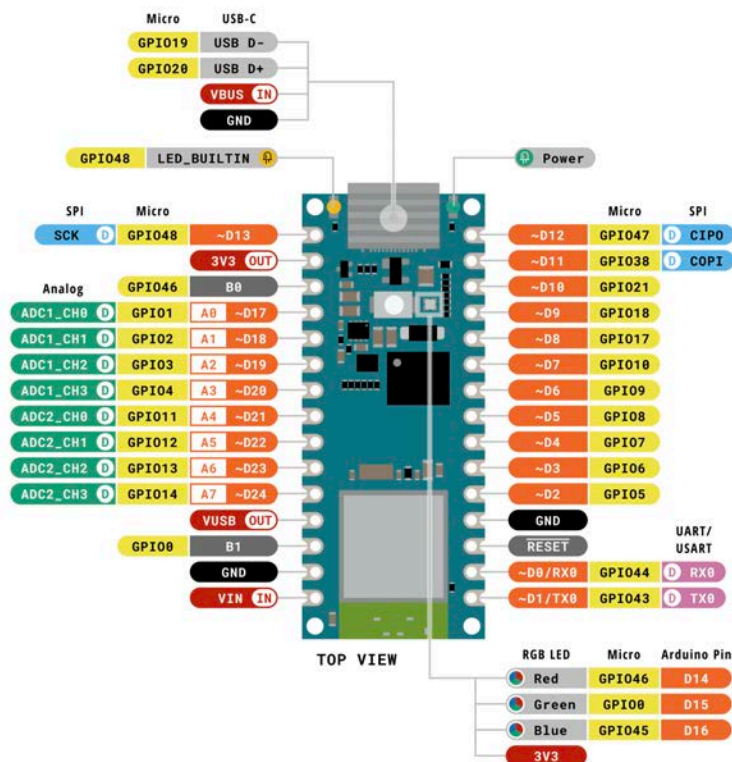
Features:

The Arduino Nano ESP32 with headers is a 3.3V development board based on the u-blox NORA-W106-10B module with ESP32-S3 SoC, Wi-Fi, Bluetooth Low Energy, built-in antenna, Arduino and MicroPython support, Arduino IoT Cloud compatibility, USB HID support, and Nano form factor for embedded IoT projects.

Specifications	
Board Name	Arduino Nano ESP32 with headers
Microcontroller	u-blox NORA-W106 (ESP32-S3)
USB Connector	USB-C
Built-in LED Pin	13
Built-in RGB LED Pins	14-16
Digital I/O Pins	14
Analog Input Pins	8
PWM Pins	5
External Interrupts	All digital pins
Wi-Fi	u-blox NORA-W106 (ESP32-S3)
Bluetooth	u-blox NORA-W106 (ESP32-S3)
UART	2x
I2C	1x, A4 (SDA), A5 (SCL)
SPI	D11 (COPI), D12 (CIPO), D13 (SCK), any GPIO for Chip Select
I/O Voltage	3.3V
Input Voltage Nominal	6-21V
Source Current per I/O Pin	40mA
Sink Current per I/O Pin	28mA
Processor	Xtensa Dual-core 32-bit LX7 Microprocessor
Clock Speed	Up to 240MHz
ROM	384kB
SRAM	512kB
RTC SRAM	16kB
External Flash	128Mbit (16MB)
RAM	8MB (NORA-W106-10B)
Width	18mm
Length	45mm
Operating Voltage	3.3V
VBUS	5V via USB-C connector

VIN Range	6-21V
Connectivity	Wi-Fi, Bluetooth LE, built-in antenna, 2.4GHz transmitter/receiver
Maximum Data Rate	Up to 150Mbps
Communication Ports	SPI, I2C, I2S, UART, CAN (TWAI)
Deep Sleep Consumption	7uA for ESP32-S3 SoC
Light Sleep Consumption	240uA for ESP32-S3 SoC
VIN Operating Condition	6V min, 7.0V typ, 21V max
VUSB Operating Condition	4.8V min, 5.0V typ, 5.5V max
Ambient Temperature	-40C min, 25C typ, 105C max
Usage	Home automation, IoT sensors, low power designs, Arduino projects, MicroPython projects
Maximum Data Rate	Up to 150Mbps

Pinouts:



Legend:	■ Digital	■ I2C	 Other SERIAL
■ Power	 Analog	■ SPI	■ Analog
■ Ground	■ Main Part	■ UART/USART	 PWM/Timer



Nano ESP32
SKU code: ABX00083
Pinout
Last update: 14 July, 2023