

INDUSTRIAL PRODUCT DATASHEET

Sipeed Longan Nano v1.1- RISC-V GD32VF103CBT6 Development Board

Sipeed Longan Nano v1.1 RISC-V development board with GD32VF103CBT6 MCU, 128KB Flash, 32KB SRAM, and rich peripherals for robot, smart timer, and smart meteorograph projects.

SKU

102991574

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PRICE

\$7.40(Excl. VAT)



Overview



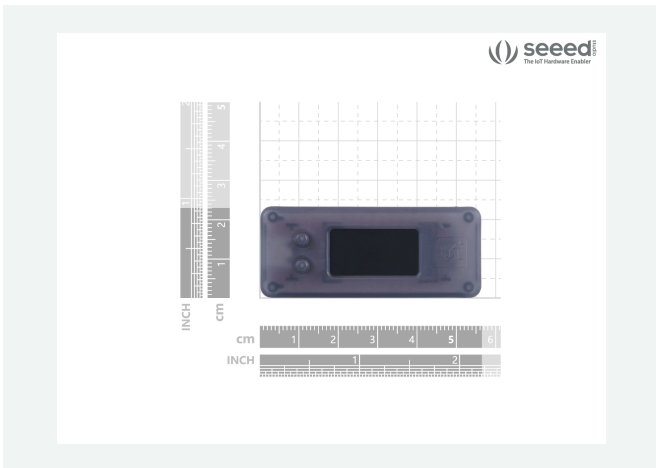
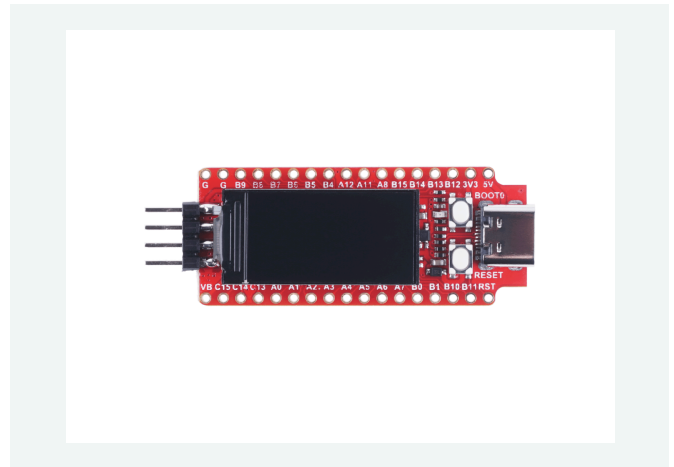
The Sipeed Longan Nano v1.1 is a RISC-V development board based on the GD32VF103CBT6 MCU with 128KB Flash and 32KB SRAM. It offers multiple timers, USART, I2C, SPI, I2S, CAN, USB OTG, ADC, and DAC, and is designed for applications such as robot, smart timer, and smart meteorograph.

Key Features

Features

- Chip built-in 128KB Flash, 32KB SRAM
- 4 x general purpose 16-bit timer, 2 x basic 16-bit timer, 1 x advanced 16-bit timer
- Watchdog, RTC, SysTick
- 3 x USART, 2 x I2C, 3 x SPI, 2 x I2S, 2 x CAN, 1 x USBFS (OTG)
- 2 x ADC (10 channel), 2 x DAC

Product Gallery



Specification

SPECIFICATIONS	
CPU	GD32VF103CBT6 based on RISC-V 32-bit core
Kernel power consumption	Only 1/3 of the traditional Cortex-M3
Storage	128KB Flash, 32KB SRAM
Peripheral	• 4 x general-purpose 16-bit timer, 2 x basic 16-bit timer, 1 x advanced 16-bit timer • Watchdog, RTC, SysTick • 3x USART, 2 x I2C, 3 x SPI, 2 x I2S, 2 x CAN, 1 x USBFS (OTG), 2 x ADC (10 channel), 2 x DAC
Button	1 Reset Button and 1 BOOT button (Connected to GPIO)
Screen interface	SPI interface (160x80 RGB IPS LCD can be connected)
Storage interface	Onboard TF Card Holder
Debug interface	2x4 pin leads out JTAG debugging interface and serial port
Crystal oscillator	8MHz passive crystal oscillator + 32.768KHz RTC crystal oscillator
LED	Onboard 1 RGB LED
GPIO	28 GPIOs have been connected to the row pins
SOFTWARE FEATURES	

IDE	PlatformIO IDE, Support debugging, Arduino
Compile Toolchain & Debugger	GCC, OpenOCD
Operating system	RT-Thread, LiteOS
WORKING CONDITIONS	
External power supply	TYPE-C: 5V±10% 0.5A
Temperature rise	<30K
Operating ambient temperature range	-10°C ~ 65°C

Applications

- Robot
- Smart Timer
- Smart Meteorograph

Part List

- 1 x Sipeed Longan Nano v1.1 Development Board
- 1 x 0.96inch 160x80 IPS RGB LCD

Compliance & Logistics



HSCODE	8517180050
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Sipeed-Longan-Nano-V1-1-p-5118.html>

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