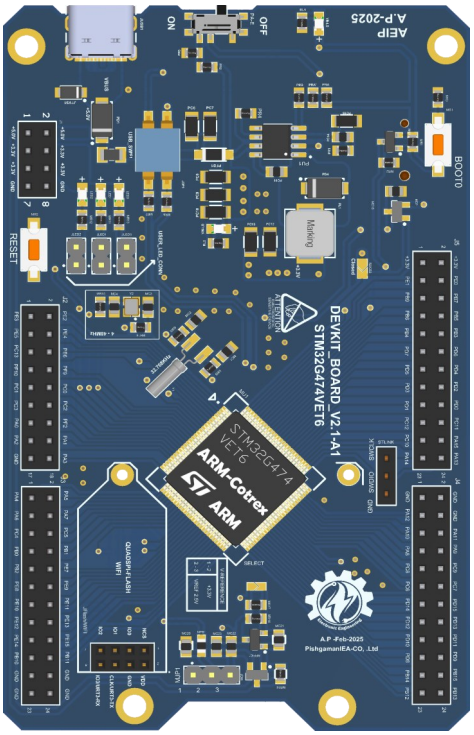
PAEIA-Co, .Ltd

Development-Board

STM32G474VET6-MCU



Features

- ARM 32-bit Cortex—M4
- VDD, VDDA 1.7V to 3.6V
- 512Kbytes of Flash Memory
- External memory interface
- POR / PDR / BOR
- Low-power modes
- 4 to 48MHz crystal oscillator
- Internal 16MHz RC with PLL
- 16-channel DMA controller
- 7 x 12-bit DAC channel
- 6 x OP-AMP
- 17 timers
- Communication interfaces
- CORDIC for trigonometric function
- FMAC : Filter mathematical accelerator
- 96Kbytes of SRAM
- Quad-SPI memory interface
- Programmable voltage detector
- VBAT supply for RTC and backup register
- 32KHz oscillator
- Internal 32KHz RC oscillator
- 5 x 12-bit ADC
- 7 x ultra-fast-Comparators
- Internal voltage reference buffer
- Calendar RTC with alarm
- RNG, CRC, Serial wire debug (SWD)

APPLICATION

Learning and simulation for :

- Digital Power conversion
- Motor control (BLDC, PMSM, Stepper)
- USB Power Delivery (USB-PD)
- Industrial Automation & control
- Medical & laboratory equipment
- Automotive & EV Application

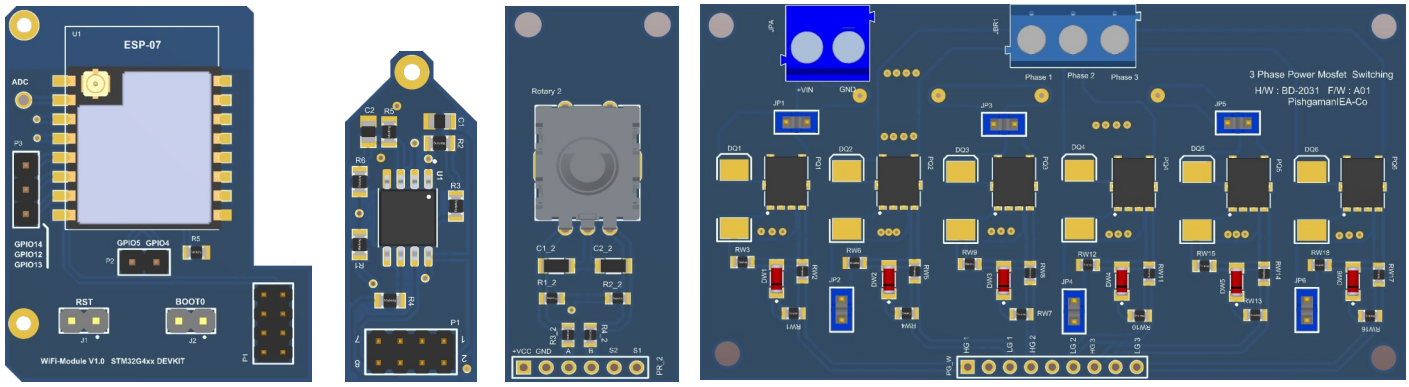
Description

The STM32G474 Development Kit is a hardware platform designed by STMicroelectronics or any other company for evaluating and prototyping applications using the STM32G474 microcontroller family. These kits provide an easy way to develop, debug, and test embedded systems leveraging the advanced features of the STM32G4 series, such as high-resolution timers, math accelerators, and precision analog peripherals.

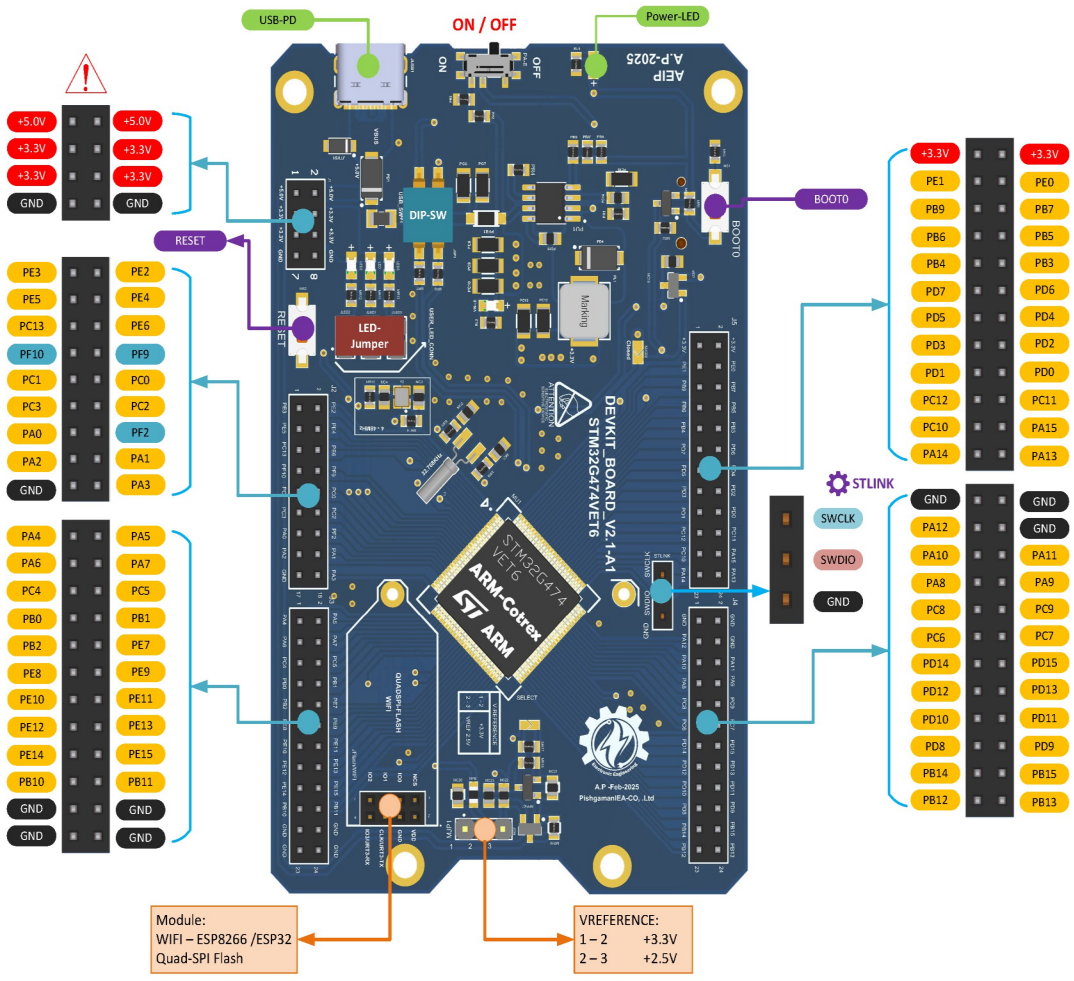
Specifications

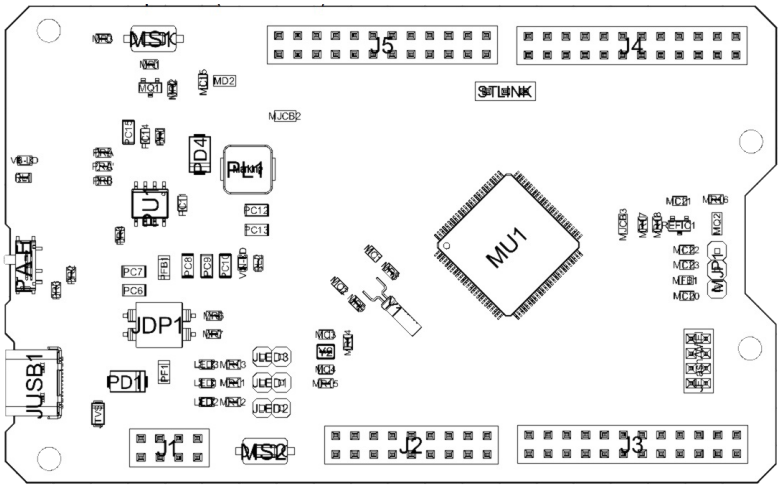
- Wi-Fi Module ESP8266 & ESP32
- Quad-SPI Module
- USB Delivery (USB-DP) Type-C
- Switching regulator : Input 5.0V / Output 3.3V @ 3A
- Full GPIO availability on the board
- 2.8” Display TFT ili9341 Module
- 3-phase half-bridge MOSFET Module
- Rotary Encoder Module

Modules



Pin Mapping & Mechanical Drawing





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