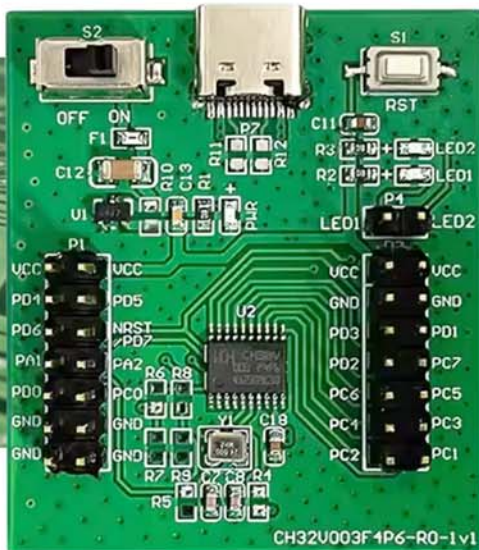


CH32V003F4P6 WCH EVALUATION BOARD 30 PINS, POWERED BY USB-C CONNECTOR



WCH-DEV-30P

Introduction :

This WCH evaluation board allows users to familiarize themselves with the cost-effective CH32V003F4P6 RISC-V microcontroller. It features a USB-C port for powering the board, a switch for an external 5V power supply, a Reset button, two HE10 connectors for accessing the I/O ports, and an HE10 connector for driving two independent LEDs.

This evaluation board works with the WCH-LINK-E programmer/debugger (sold separately) and the MounRiver Studio software, which can be downloaded for free from the Internet. The board driver is installed automatically during software installation. MounRiver Studio is an integrated development environment that allows you to develop code in C, compile it, and transfer the generated HEX file to the evaluation board via the HE10 connector (1-wire SWDIO).

The evaluation board's schematic is also available for download.

Technical specifications :

Power supply : 5 Vdc through HE10 connector or USB-C connector.

Microcontroller : CH32V003F4P6 (TSSOP20 package, 32-bit RISC-V 48 MHz core).

Memory : 16 KB Flash / 2 KB SRAM / 1920 B Bootloader / 64 B System configuration / 64 B Chip-ID.

Ports : 18 GPIO ports (configurable I/O, Timer, watchdog, clock, 10-bit ADC, SPI, I2C, USART).

Operating temperature : -40°C to +85°C (Industrial grade).

Programming : 1-wire (SWIO) through HE10 connector.

Items included :

Evaluation Board.

Available for download online:

- MounRiver Studio software.
- Evaluation board schematic.
- Evaluation board reference manual (in English).

(This board requires the WCH-LINK-E programmer, sold separately).

