

**MICROCONTROLLER WCH CH32V003 RISC-V ARCHITECTURE
SOP8, SOP16, TSSOP20 PACKAGE FLASH 16 Ko, SRAM 2Ko, 48MHz**



CH32V003J4M6-X5 CH32V003A4M6-X5 CH32V003F4P6-X5

Introduction :

The CH32V003 microcontroller from WCH is a cost-effective component suitable for use in all your projects, featuring a 32-bit RISC-V architecture core with a clock speed of 48 MHz. It includes 16 KB of Flash memory and 2 KB of SRAM. It also includes 1920 B of bootloader, 64 B of system configuration NVRAM, and 64 B for the ID chip. A unique serial number is also integrated into each component.

It offers 6, 14, or 18 GPIO pins depending on the package type used: SOP8, SOP16, or TSSOP20. The GPIO inputs/outputs, divided into 3 groups, can also be configured as 10-bit analog inputs, timers, watchdogs, clocks, or SPI, I2C, or USART communication ports.

The component is programmed via the 1-wire SWDIO interface using the WCH-LINK-E programmer and its MounRiver Studio IDE software.

Technical specifications :

Power supply : 3,3Vdc or 5 Vdc.

Architecture: 32-bit RISC-V QinKe core, 48 MHz

Memory: 16 KB Flash, 2 KB SRAM, 1920 B bootloader, 64 B system configuration, 64 B chip ID.

Ports: until 18 GPIO ports (Configurable I/O, Timer, Watchdog, Clock, 10-bit ADC, SPI, I2C, USART).

Programming: 1-wire SWDIO.

Packages: SOP8-150mil / SOP16-150mil / TSSOP20-170mil.

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

Items included :

Set of 5 components cute tape.

