



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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STM32-P405



HEADER BOARD FOR STM32F405RGT6 ARM CORTEX M4 1024KB FLASH 168 MHZ 192KB SRAM

The ARM Cortex-M4 processor is the latest generation of ARM processors for embedded systems. It has been developed to provide a low-cost platform that meets the needs of MCU implementation, with a reduced pin count and low-power consumption, while delivering an outstanding computational performance and an advanced system response to interrupts. The ARM Cortex-M4 32-bit RISC processor features exceptional code-efficiency, delivering the high-performance expected from an ARM core in the memory size usually associated with 8- and 16-bit devices.

The STM32F405RGT6 performance line family has an embedded ARM core and is therefore compatible with all ARM tools and software. It combines the high performance ARM Cortex-M3 CPU with an extensive range of peripheral functions and enhanced I/O capabilities. STM32-P4053 is a good start-up board for learning the new ST Cortex-M4 based microcontrollers STM32F405RGT6. It has RS232 and both USB and CAN. It also features a prototype area with all microcontroller signals near it, giving the customer an easy way to implement his own schematics and add-ons.

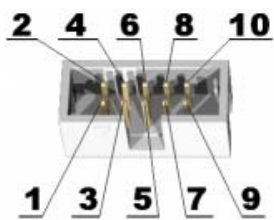
FEATURES

- MCU: STM32F405RGT6 ARM Cortex M4 1024KB FLASH 168 Mhz 192kb SRAM USB, CAN, x2 I2C, x2 ADC 12 bit, x3 UART, x2 SPI, x3 TIMERS, up to 72Mhz operation
- Standard JTAG connector with ARM 2x10 pin layout for programming/debugging with ARM-JTAG
- USB connector
- CAN driver and connector
- RS232 driver and connector
- UEXT connector which allows different modules to be connected (as MOD-MP3, MOD-NRF24LR, etc)
- SD-MMC connector
- Backup battery connector
- RESET button
- Status LED
- Power supply LED
- On-board voltage regulator 3.3V with up to 800mA current
- Single power supply: takes power from USB port or power supply jack
- 8 Mhz crystal oscillator
- 32768 Hz crystal and RTC backup battery connector

HARDWARE

- [STM32-P405 latest schematic](#)

- Extension headers for all uC ports
- PCB: FR-4, 1.5 mm (0,062"), red soldermask, silkscreen component print
- Dimensions: 100 x 90mm (3.94 x 3.5")



UEXT Modules

- | | | |
|--------------------|----------------------|------------------|
| → <u>Interface</u> | → <u>Adapters</u> | → <u>Sensors</u> |
| → <u>LCD</u> | → <u>LED</u> | → <u>IO</u> |
| → <u>Video</u> | → <u>RF</u> | → <u>RFID</u> |
| → <u>Ethernet</u> | → <u>Time</u> | → <u>GPS</u> |
| → <u>MP3</u> | → <u>Biofeedback</u> | |

Related Products



RS232-CABLE



USB-A-B-CABLE