

## STM32-H405


**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-H405 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 168Mhz  
Standard JTAG connector with ARM 2x10 pin  
layout for programming/debugging with ARM-  
JTAG  
USB connector  
User button  
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  
extension connector pin  
8 Mhz crystal oscillator

32768 Hz crystal and RTC backup battery  
connector

Extension headers for all uC ports

PCB: FR-4, 1.5 mm (0,062"), soldermask,  
silkscreen component print

Dimensions: 61x 34mm (2.4 x 1.3")

Distance between the exntension connectors: 25.4  
mm (1")