STM32F429IGT6

STM32H750VBT6 microcontroller is a high-performance DSP product from STMicroelectronics. This device supports a full set of DSP instructions and a memory protection unit (MPU) to enhance application security. This is a very good MCU.
XT-ShenZhen® welcomes all new and old customers to cooperate with us. If you have any questions, please contact us and we will answer your questions within 24 hours

The STM32H750VBT6 microcontroller is a DP-FPU high-performance DSP based on the Arm® Cortex-M7® 32bit RISC core, with an operating frequency of up to 480MHz. The Cortex® -M7 core features an FPU that supports Arm® double-precision (IEEE 754 compliant) and single-precision data processing instructions and data types.
STM32H750VBT6 microcontroller with flash capacity up to 128 KB, flexible external memory controller with up to 32-bit data bus, dual-mode quad-SPI memory interface running up to 133 MHz; also with ROP, PC-ROP, active tampering, secure firmware upgrade Support, secure access mode, security is guaranteed; low power consumption, total current consumption down to 4μA; also has low power modes: sleep, stop, standby and VBAT with support for battery charging.

Features

•Flexible external memory controller with up to 32-bit data bus:
- SRAM, PSRAM and NOR Flash with clock frequencies up to 133 MHz in synchronous mode
- SDRAM/LPSDR SDRAM–8/16-bit NAND Flash
•CRC calculation unit
•Up to 168 I/O ports with interrupt capability
•Embedded voltage regulators (LDOs) with configurable, scalable outputs to power digital circuits
•Dedicated USB power supply with embedded 3.3 V internal regulator to power the internal PHY
•1 high-speed Master Direct Memory Access Controller (MDMA) with linked list support
•2 dual-port DMAs with FIFO
•1 basic DMA with request router functionality
•2 watchdogs (independent and windowed)
•Hashing (MD5, SHA-1, SHA.2), HMAC
•True random number generator debug mode
•SWD and JTAG interface
•4 KB embedded trace buffer

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Product parameters

technical parameter	memory size	1MB
	number of digits	32
	Number of inputs/outputs	82
	Working temperature (Max)	85℃
	Working temperature (Min)	-40℃
	Supply voltage (Max)	3.6V
	Power supply voltage (Min)	1.71V
	Number of pins	100
	package	LQFP-100

Product Image

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FAQ

Q: Is your company a new company?
A: No, our company was established in 2014 and has 10 years of experience in supplying electronic components.

Q: Which clients have you served?
A: We provide services and maintain cooperative relationships with many well-known companies, including the top 10 companies in the automotive industry.

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