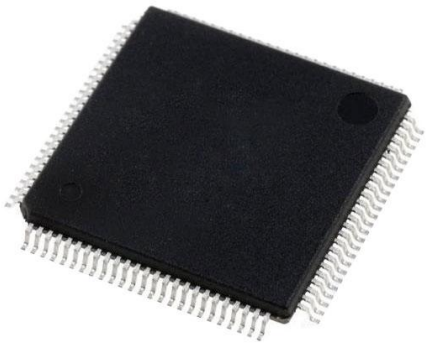

STM32F407VET6

STM32F407VET6 is designed and developed by STMicroelectronics. A high-performance microcontroller MCU. Employs industry-leading 32-bit flash memory with a floating-point unit. The application range is very wide, and it is one of the MCUs that are currently in short supply. For more original electronic components, please contact us! ! !

The STM32F407VET6 features an ARM® 32-bit Cortex®-M4 CPU with FPU, Adaptive Real-Time Accelerator (ART Accelerator™), allowing 0-wait-state execution from flash memory at frequencies up to 168 MHz. Features an Ethernet MAC and camera interface for CMOS sensors. Low power operation is divided into 3 modes sleep, stop and standby mode. Up to 24 channels and 7.2 MS PS•2×12-bit D/A converter in triple interleaved mode. In addition, the power saving mode kit is designed for low power applications. A variety of applications will be covered, including motor drives and application control, industrial applications: inverters, PLCs, scanners, HVAC, video intercoms, home audio equipment and medical equipment.

Product Features

•Memory - Up to 1 MB Flash - Up to 192+4 KB SRAM including 64 KB CCM (Core Coupled Memory) Data RAM - Supports Flexible Static Memory Controller Compact Flash, SRAM, PSRAM, NOR and NAND memory LCD parallel interface, 8080/6800 mode
•Clock, reset and power management
- 1.8 V to 3.6 V application power and I/O
- POR, PDR, PVD and BOR - 4- to 26 MHz crystal oscillator
–Internal 16 MHz factory trimmed RC (1% accuracy)
–32 kHz oscillator for RTC with calibration
–Internal 32 kHz RC with calibration function Low power operation
- Hibernate, Stop and Standby modes
- VBAT power supply for RTC, 20 ×32-bit backup registers + optional 4 KB backup SRAM 3×12-bit, 2.4 MSPS A/D converter: up to 24 channels and 7.2 MS PS in triple interleaved mode 2×12-bit D/A converter
•General purpose DMA: 16-stream DMA controller with FIFO and burst support
•Up to 17 timers: up to 12 16-bit timers and 2 32-bit timers up to 168 MHz, each with up to 4 I2C/OC/PWM or pulse counters and quadrature (incremental) Encoder input
•Debug mode
- Serial Wire Debug (SWD) and JTAG interface
- Cortex-M4 Embedded Trace Macrocell™
•Up to 140 I/O ports with interrupt capability

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Tel:+86-755-83240078 **Phone:**+86-13927462033
E-mail:jack-sellandbuycomponents@xt-shenzhen.cn

–Up to 136 fast I/Os up to 84 MHz

–Up to 138 5 V tolerant I/Os

•Up to 15 communication interfaces

–Up to 3 I2C interfaces (SMBus/PMBus)

–Up to 4 USARTs/2 UARTs (10.5 Mbit/s, ISO 7816 interface, LIN, IrDA, modem control)

–Up to 3 SPI (42 Mbits/s), 2 with multiplexed full duplex I2S via internal audio PLL or external clock

–2×CAN interface (2.0B active)

–SDIO interface•Advanced connectivity

–USB 2.0 Full SpeedDevice/Host/OTG Controller with On-Chip PHY

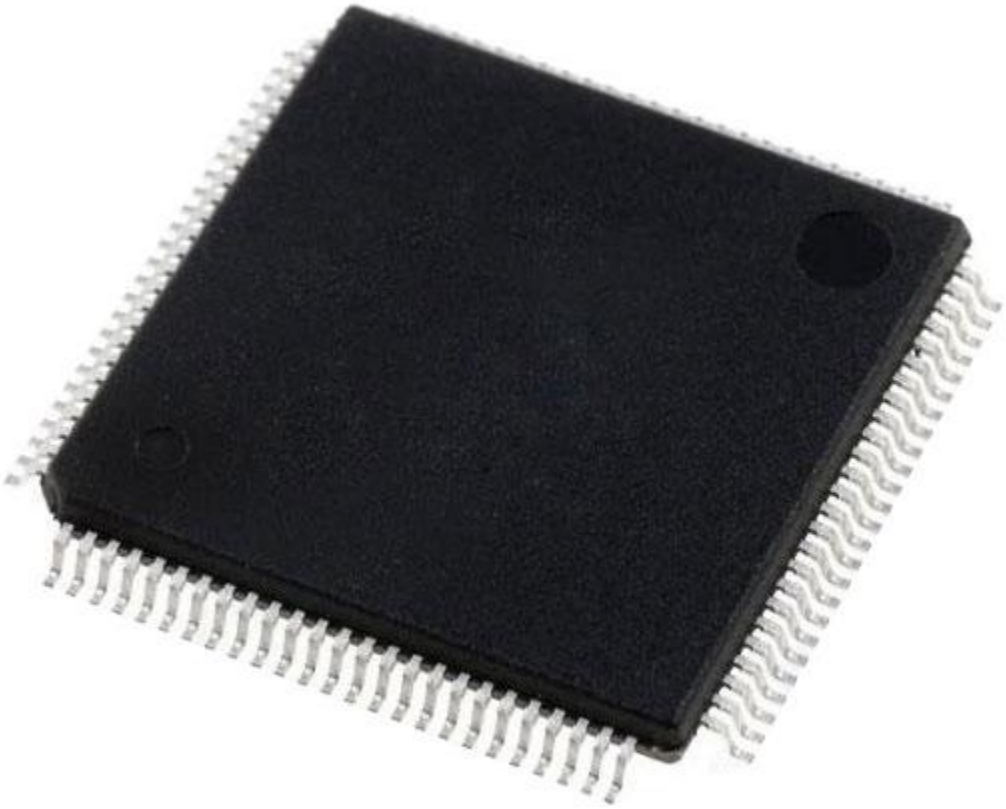
–USB 2.0 Hi-Speed/Full-SpeedDevice/Host/OTG Controller with d edicated DMA, On-Chip Full-SpeedPHY and ULPI

–10/100 Ethernet MAC with dedicated DMA: supports IEEE 1588v2 hardware, MII/RMII 8 to 14 bit parallel camera interface,

Product parameters

technical parameter	frequency	168MHz
	Supply voltage (DC)	1.80V（min）
	Operating Voltage	1.8V-36.V
	Number of pins	100
	RAM size	196KB
	number of digits	32
	FLASH memory capacity	512KB
	Analog to Digital Conversion (ADC)	3
	Number of inputs/outputs	82Input
	Working temperature (Max)	85℃
	Working temperature (Min)	-40℃
	Analog to Digital Conversion (DAC)	1
	package	LQFP-100
	Packing	Tray

Product Image



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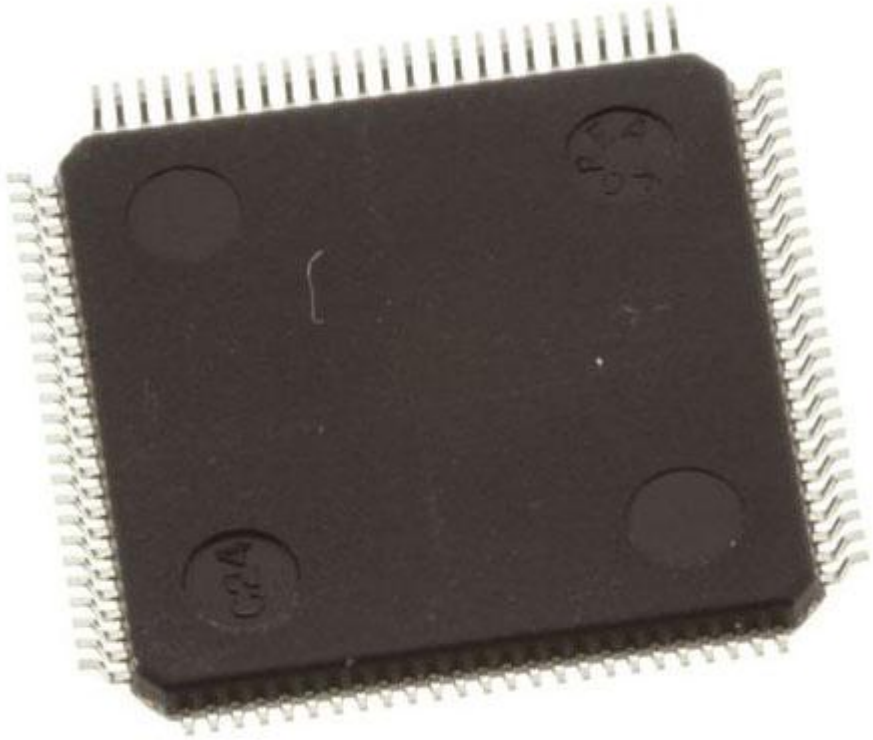

FAQ

Q: Does your company have professional inspectors?
A: Yes, in order to ensure product quality, we employ a number of professional engineers.

Q: How big is your warehouse?
A: The warehouse area of our company is 500m2, and we have a lot of stock.

Q: How do you ensure the safe transportation of goods?
A: We cooperate with professional multinational logistics companies to ensure the safety of cargo transportation.

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