



STM32F423VHT6

Manufacturer Part Number	STM32F423VHT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F423VHT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1.5MB FLASH 100LQFP
Package	100-LQFP
Data sheet	STM32F423xH Datasheet.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32F423VHT6 Tech Specifications
STM32F423VHT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	81
Speed	100MHz	Mounting Type	Surface Mount
Series	STM32F4	EEPROM Size	-
RAM Size	320K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1.5MB (1.5M x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32F423
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F423VHT6

Product Attribute				
Part Number	STM32F423VHT6	STM32F423ZHJ6	STM32F417ZGT6	STM32F427IGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Base Product Number	STM32F423	STM32F423	STM32F417	STM32F427
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB OTG	CANbus, DCMI, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Size	1.5MB (1.5M x 8)	1.5MB (1.5M x 8)	1MB (1M x 8)	1MB (1M x 8)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	100-LQFP	144-UFBGA	144-LQFP	176-LQFP
Number of I/O	81	114	114	140
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Supplier Device Package	100-LQFP (14x14)	144-UFBGA (10x10)	-	176-LQFP (24x24)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Speed	100MHz	100MHz	168MHz	180MHz
Series	STM32F4	STM32F4	STM32F4	STM32F4
RAM Size	320K x 8	320K x 8	192K x 8	256K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tray	Tray	Tray	Tray
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V

STM32F423VHT6 Datasheet PDF

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PCN Packaging

2.73KHz.pdf

PCN Design/Specification


Mult Dev 03/Nov/2022.pdf

Mult Dev Material Chgs 28/Feb/2023.pdf

PCN Assembly/Origin

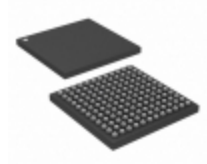
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Recommended Products



STM32F423ZHJ6

STMicroelectronics
IC MCU 32BIT 1.5MB FLSH
144UFBGA



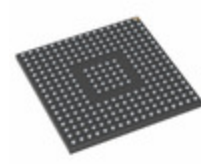
STM32F417ZGT6

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IC MCU 32BIT 1MB FLASH 144LQFP



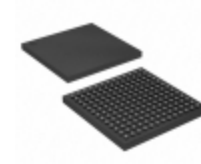
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IC MCU 32BIT 1MB FLASH 176LQFP



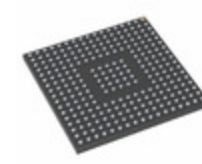
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IC MCU 32BIT 512KB FLSH
176UFBGA



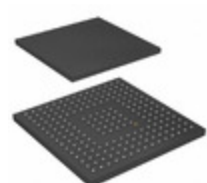
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STM32F427IIH7

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IC MCU 32BIT 2MB FLASH 176UFBGA



STM32F417ZET6

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IC MCU 32BIT 512KB FLASH
144LQFP



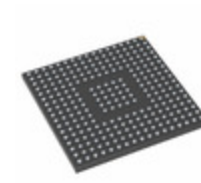
STM32F415VGT6

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IC MCU 32BIT 1MB FLASH 100LQFP



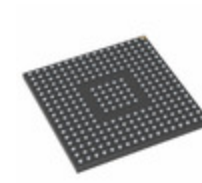
STM32F417VET6

STMicroelectronics
IC MCU 32BIT 512KB FLASH
100LQFP



STM32F427IGH7

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IC MCU 32BIT 1MB FLASH 176UFBGA



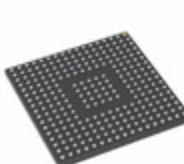
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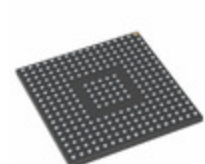
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STM32F427IIH6TR

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IC MCU 32BIT 2MB FLASH 176UFBGA



STM32F427IIH6

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STM32F427IIT6

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STM32F415RGT6TR

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IC MCU 32BIT 1MB FLASH 64LQFP



STM32F427VGT6

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IC MCU 32BIT 1MB FLASH 100LQFP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



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Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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