



Image may be representation.  
See specifications for product details.



## STM32F207VCT6

Manufacturer Part Number	<b>STM32F207VCT6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F207VCT6
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 256KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<a href="#">STM32 F2 Series Brochure.pdf</a> <a href="#">STM32F205,207xx Datasheet.pdf</a> <a href="#">STM32F(10,20,21,L1)zzz Prog. Manual.pdf</a> <a href="#">STM2x5,2x7 Flash Programming Manual.pdf</a>
RoHs Status	ROHS3 Compliant

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## Specifications

STM32F207VCT6 Tech Specifications  
STM32F207VCT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	82
Speed	120MHz	Mounting Type	Surface Mount
Series	STM32F2	EEPROM Size	-
RAM Size	132K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Connectivity	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, Memory Card, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32F207
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F207VCT6

Product Attribute				
Part Number	STM32F207VCT6	STM32F207IET6	STM32F207IFH6	STM32F207VET6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Number of I/O	82	140	140	82
Speed	120MHz	120MHz	120MHz	120MHz
Package / Case	100-LQFP	176-LQFP	201-UFBGA	100-LQFP
Supplier Device Package	100-LQFP (14x14)	176-LQFP (24x24)	176+25UFBGA (10x10)	100-LQFP (14x14)
RAM Size	132K x 8	132K x 8	132K x 8	132K x 8
Data Converters	A/D 16x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	512KB (512K x 8)	768KB (768K x 8)	512KB (512K x 8)
Package	Tray	Tray	Tray	Tray
Base Product Number	STM32F207	STM32F207	STM32F207	STM32F207
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Connectivity	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, Memory Card, SPI, UART/USART, USB OTG	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, Memory Card, SPI, UART/USART, USB OTG	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, Memory Card, SPI, UART/USART, USB OTG	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, Memory Card, SPI, UART/USART, USB OTG
Series	STM32F2	STM32F2	STM32F2	STM32F2
EEPROM Size	-	-	-	-

## STM32F207VCT6 Datasheet PDF

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### Datasheets



STM32 F2 Series Brochure.pdf



STM32F205,207xx Datasheet.pdf

## PCN Packaging


 Material Barrier Bag 17/Dec/2020.pdf

## PCN Assembly/Origin

 Mult Dev 01/Mar/2021.pdf


## PCN Design/Specification


 Mult Dev 03/Nov/2022.pdf

 Mult Dev Material Chgs 28/Feb/2023.pdf

 STM32F2yyy 16/Jul/2021.pdf


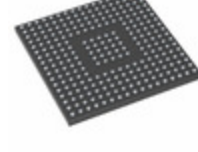







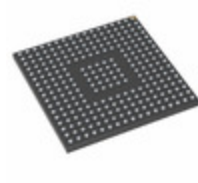

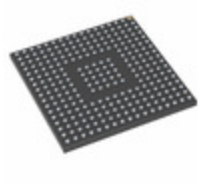
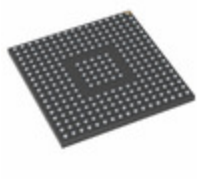



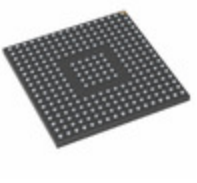

## HTML Datasheet

 STM32F(10,20,21,L1)zzz Prog. Manual.pdf

 STM2x5,2x7 Flash Programming Manual.pdf

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<b>STM32F207IET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 176LQFP	<b>STM32F207IFH6</b> STMicroelectronics IC MCU 32BIT 768KB FLSH 176UFBGA	<b>STM32F207VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	<b>STM32F207IGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP	<b>STM32F207ZET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	<b>STM32F207IGT7</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP
					
<b>STM32F207VGT6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F207ZFT6</b> STMicroelectronics IC MCU 32BIT 256KB FLASH 144LQFP	<b>STM32F207VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F207IFH6TR</b> STMicroelectronics IC MCU 32BIT 768KB FLSH 176UFBGA	<b>STM32F207ZCT6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	<b>STM32F207IGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176UFBGA
					
<b>STM32F207IGH7</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176UFBGA	<b>STM32F207VCT7</b> STMicroelectronics IC MCU 32BIT 256KB FLASH 100LQFP	<b>STM32F207VFT6</b> STMicroelectronics IC MCU 32BIT 768KB FLASH 100LQFP	<b>STM32F207IFT6</b> STMicroelectronics IC MCU 32BIT 768KB FLASH 176LQFP	<b>STM32F207IEH6</b> STMicroelectronics IC MCU 32BIT 512KB FLSH 176UFBGA	<b>STM32F207ZET6TR</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP

## 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

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> 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.  
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