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See specifications for product details.



STM32F107VCT7

Manufacturer Part Number	STM32F107VCT7
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F107VCT7
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 256KB FLASH 100LQFP
Package	100-LQFP
Data sheet	STM32F105xx, 7xx.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32F107VCT7 Tech Specifications
STM32F107VCT7 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	80
Speed	72MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	64K 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	DMA, POR, PWM, Voltage Detect, WDT	Connectivity	CANbus, Ethernet, I²C, IrDA, LINbus, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32F107
Package	Tray		

Parts with Similar Specifications

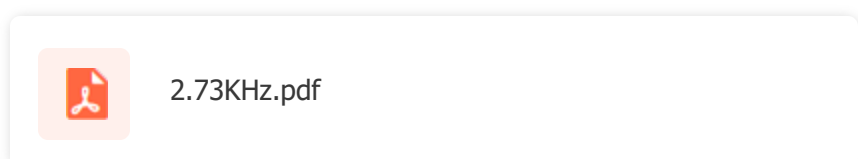
The three parts on the right have similar specifications to STMicroelectronics STM32F107VCT7

Product Attribute				
Part Number	STM32F107VCT7	STM32F205RET6	STM32F205RBT6	STM32F205RCT6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package	Tray	Tray	Tray	Tape & Reel (TR)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	72MHz	120MHz	120MHz	120MHz
EEPROM Size	-	-	-	-
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Number of I/O	80	51	51	51
Program Memory Size	256KB (256K x 8)	512KB (512K x 8)	128KB (128K x 8)	256KB (256K x 8)
RAM Size	64K x 8	132K x 8	68K x 8	100K x 8
Supplier Device Package	100-LQFP (14x14)	64-LQFP (10x10)	64-LQFP (10x10)	64-LQFP (10x10)
Connectivity	CANbus, Ethernet, I²C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, I²C, IrDA, LINbus, MMC, SPI, UART/USART, USB OTG	CANbus, I²C, IrDA, LINbus, MMC, SPI, UART/USART, USB OTG	CANbus, I²C, IrDA, LINbus, MMC, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	64-LQFP	64-LQFP	64-LQFP
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	STM32F107	STM32F205	STM32F205	STM32F205
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	STM32F1	STM32F2	STM32F2	STM32F2
Peripherals	DMA, POR, PWM, Voltage Detect, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT

STM32F107VCT7 Datasheet PDF

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PCN Packaging



PCN Design/Specification

HTML Datasheet

STM32F105xx, 7xx.pdf

PCN Assembly/Origin

STM32F107 A/T 10/Jun/2021.pdf

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 STM32F151RBH6 STMicroelectronics	 STM32F205RCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	 STM32F107RCT6TR STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	 STM32F107RCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	 STM32F205RET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	 STM32F105VCT7 STMicroelectronics IC MCU 32BIT 256KB 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.

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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. Contact us if you have any questions.

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