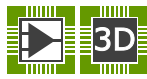



# STM32F413VGT6TR

Manufacturer Part Number	<b>STM32F413VGT6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F413VGT6TR
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 100LQFP
Package	100-LQFP
Data sheet	<b>STM32F413xG, STM32F413xH Datasheet.pdf</b>
RoHs Status	 ROHS3 Compliant


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## Specifications


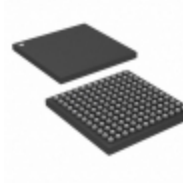

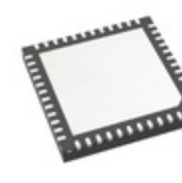
STM32F413VGT6TR Tech Specifications

STM32F413VGT6TR - 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	1MB (1M x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32F413
Package	Tape & Reel (TR)		

## Parts with Similar Specifications


The three parts on the right have similar specifications to STMicroelectronics STM32F413VGT6TR

Product Attribute	 NO PICTURE			
Part Number	STM32F413VGT6TR	<a href="#">STM32F412ZGJ6TR</a>	<a href="#">STM32F415VGT6</a>	<a href="#">STM32F413CGU6</a>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	320K x 8	256K x 8	192K x 8	320K x 8
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tray
Number of I/O	81	114	82	36
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	-	-	-	-
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b	A/D 16x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b
Speed	100MHz	100MHz	168MHz	100MHz
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	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)
Package / Case	100-LQFP	144-UFBGA	100-LQFP	48-UFQFN Exposed Pad
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.8V ~ 3.6V	1.7V ~ 3.6V
Supplier Device Package	100-LQFP (14x14)	144-UFBGA (10x10)	100-LQFP (14x14)	48-UFQFN (7x7)
Base Product Number	STM32F413	STM32F412	STM32F415	STM32F413
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
Series	STM32F4	STM32F4	STM32F4	STM32F4
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Connectivity	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG


## STM32F413VGT6TR Datasheet PDF

Download STM32F413VGT6TR pdf datasheets and STMicroelectronics documentation for STM32F413VGT6TR - STMicroelectronics.

### Datasheets


[STM32F413xG, STM32F413xH Datasheet.pdf](#)

### PCN Packaging


[Material Barrier Bag 17/Dec/2020.pdf](#)

## PCN Design/Specification



Mult Dev 03/Nov/2022.pdf



Mult Dev Material Chgs 28/Feb/2023.pdf

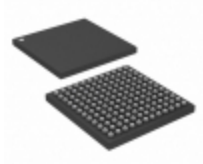
## PCN Assembly/Origin



STM32 15/Nov/2019.pdf

## Customers Also Interested in

### Recommended Products



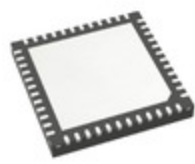
**STM32F412ZGJ6TR**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144UFBGA



**STM32F415VGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 100LQFP



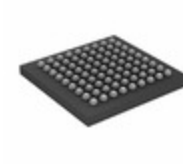
**STM32F413CGU6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 48UFQFPN



**STM32F413VGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 100LQFP



**STM32F413MGY6TR**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 81WLCSP



**STM32F4150GY6TR**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 90WLCSP



**STM32F413VHT6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLASH 100LQFP



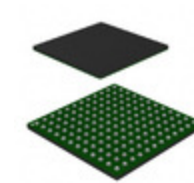
**STM32F415RGT6TR**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 64LQFP



**STM32F413RHT6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLASH 64LQFP



**STM32F413ZHJ6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLSH 144UFBGA



**STM32F413ZGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144LQFP



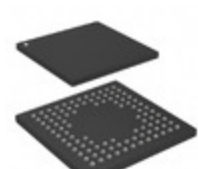
**STM32F413ZHT6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLASH 144LQFP



**STM32F415RGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 64LQFP



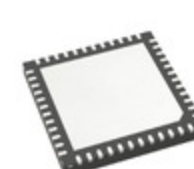
**STM32F413VHH6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLSH 100UFBGA



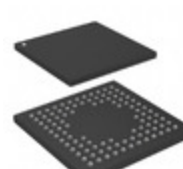
**STM32F413RGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 64LQFP



**STM32F413CHU6**

STMicroelectronics  
IC MCU 32BIT 1.5MB FLSH 48UFQFPN



**STM32F413VGH6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 100UFBGA



**STM32F412ZGT6**

STMicroelectronics  
IC MCU 32BIT 1MB 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

> 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:  
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