



Image may be representation.  
See specifications for product details.



## STM32F412ZGT6

Manufacturer Part Number	<b>STM32F412ZGT6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F412ZGT6
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 1MB FLASH 144LQFP
Package	144-LQFP
Data sheet	<b>STM32F412xE, STM32F412xG.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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STM32F412ZGT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F412ZGT6 datasheet/specifications on AllelcoElec.com.  
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### Specifications

STM32F412ZGT6 Tech Specifications  
STM32F412ZGT6 - 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	144-LQFP (20x20)	Number of I/O	114
Speed	100MHz	Mounting Type	Surface Mount
Series	STM32F4	EEPROM Size	-
RAM Size	256K x 8	Data Converters	A/D 16x12b
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, I²S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	STM32F412
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F412ZGT6

Product Attribute				
Part Number	STM32F412ZGT6	STM32F413MGY6TR	STM32F413VGT6	STM32F413CGU6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Connectivity	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SDIO, QSPI, SAI, SPI, UART/USART, USB OTG
Package	Tray	Tape & Reel (TR)	Tray	Tray
Data Converters	A/D 16x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Base Product Number	STM32F412	STM32F413	STM32F413	STM32F413
Number of I/O	114	60	81	36
Series	STM32F4	STM32F4	STM32F4	STM32F4
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	144-LQFP	81-UFBGA, WLCSFP	100-LQFP	48-UFQFN Exposed Pad
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Speed	100MHz	100MHz	100MHz	100MHz
Peripherals	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	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT
RAM Size	256K x 8	320K x 8	320K x 8	320K x 8
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Supplier Device Package	144-LQFP (20x20)	81-WLCSFP (4.04x3.95)	100-LQFP (14x14)	48-UFQFPN (7x7)
EEPROM Size	-	-	-	-
Oscillator Type	Internal	Internal	Internal	Internal

### STM32F412ZGT6 Datasheet PDF

Download STM32F412ZGT6 pdf datasheets and STMicroelectronics documentation for STM32F412ZGT6 - STMicroelectronics.

#### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

#### PCN Design/Specification

## HTML Datasheet









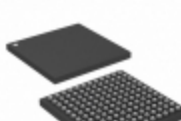



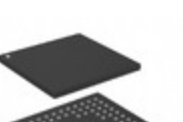



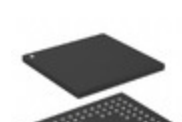

STM32F412xE, STM32F412xG.pdf

## PCN Assembly/Origin

Mult Dev Assembly Add 8/Mar/2019.pdf

## Customers Also Interested in

### Recommended Products

					
<b>STM32F413MGY6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 81WLCSP	<b>STM32F413VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F413CGU6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 48UFQFPN	<b>STM32F412VEH3TR</b> STMicroelectronics IC MCU 32BIT 512KB FL5H 100UFBGA	<b>STM32F412ZET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	<b>STM32F412VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP
					
<b>STM32F412VGT6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F413RGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 64LQFP	<b>STM32F412ZGJ6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144UFBGA	<b>STM32F413RHT6</b> STMicroelectronics IC MCU 32BIT 1.5MB FLASH 64LQFP	<b>STM32F413CHU6</b> STMicroelectronics IC MCU 32BIT 1.5MB FL5H 48UFQFPN	<b>STM32F412VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP
					
<b>STM32F412VEH6</b> STMicroelectronics IC MCU 32BIT 512KB FL5H 100UFBGA	<b>STM32F412VGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100UFBGA	<b>STM32F412VET6TR</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	<b>STM32F413VGT6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F413VGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100UFBGA	<b>STM32F412ZGJ6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144UFBGA

## 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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Contact us if you have any questions.

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