



STM32F412RGY6TR

Manufacturer Part Number	STM32F412RGY6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F412RGY6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 64WLCSP
Package	64-UFBGA, WLCSP
Data sheet	STM32F412xE, STM32F412xG.pdf
RoHs Status	ROHS3 Compliant



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Specifications

STM32F412RGY6TR Tech Specifications

STM32F412RGY6TR - 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	64-WLCSP (3.62x3.65)	Number of I/O	50
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	64-UFBGA, WLCSP	Base Product Number	STM32F412
Package	Tape & Reel (TR)		

Parts with Similar Specifications

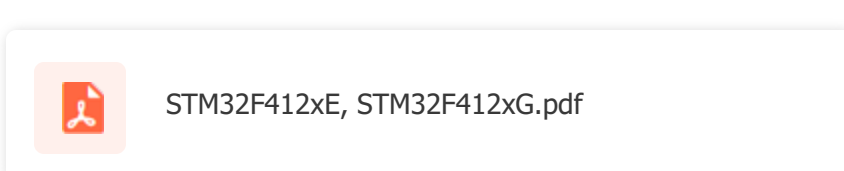
The three parts on the right have similar specifications to STMicroelectronics STM32F412RGY6TR

Product Attribute				
Part Number	STM32F412RGY6TR	STM32F412VEH6	STM32F412RGT6TR	STM32F412ZGJ6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
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
Supplier Device Package	64-WLCSP (3.62x3.65)	100-UFBGA (7x7)	64-LQFP (10x10)	144-UFBGA (10x10)
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Number of I/O	50	81	50	114
RAM Size	256K x 8	256K x 8	256K x 8	256K x 8
Data Converters	A/D 16x12b	A/D 16x12b	A/D 16x12b	A/D 16x12b
Program Memory Type	FLASH	FLASH	FLASH	FLASH
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
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Size	1MB (1M x 8)	512KB (512K x 8)	1MB (1M x 8)	1MB (1M x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
EEPROM Size	-	-	-	-
Package	Tape & Reel (TR)	Tray	Tape & Reel (TR)	Tape & Reel (TR)
Speed	100MHz	100MHz	100MHz	100MHz
Series	STM32F4	STM32F4	STM32F4	STM32F4
Package / Case	64-UFBGA, WLCSP	100-UFBGA	64-LQFP	144-UFBGA
Base Product Number	STM32F412	STM32F412	STM32F412	STM32F412
Connectivity	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG

STM32F412RGY6TR Datasheet PDF

Download STM32F412RGY6TR pdf datasheets and STMicroelectronics documentation for STM32F412RGY6TR - STMicroelectronics.

HTML Datasheet

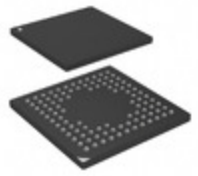


PCN Assembly/Origin



Customers Also Interested in

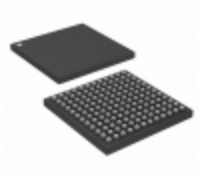
Recommended Products



STM32F412VEH6
STMicroelectronics
IC MCU 32BIT 512KB FLASH 100UFBGA



STM32F412RGT6TR
STMicroelectronics
IC MCU 32BIT 1MB FLASH 64LQFP



STM32F412ZGJ6TR
STMicroelectronics
IC MCU 32BIT 1MB FLASH 144UFBGA



STM32F411VET6TR
STMicroelectronics
IC MCU 32BIT 512KB FLASH 100LQFP



STM32F412REY6TR
STMicroelectronics
IC MCU 32BIT 512KB FLASH 64WL CSP



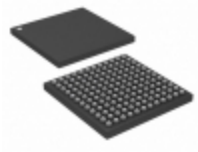
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STMicroelectronics
IC MCU 32BIT 512KB FLASH 100LQFP



STM32F412VET6
STMicroelectronics
IC MCU 32BIT 512KB FLASH 100LQFP



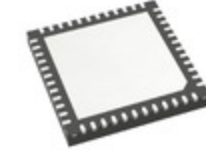
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STMicroelectronics
IC MCU 32BIT 1MB FLASH 48UFQFPN



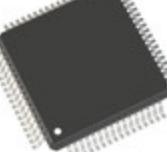
STM32F412ZGJ6
STMicroelectronics
IC MCU 32BIT 1MB FLASH 144UFBGA



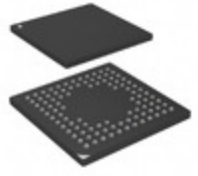
STM32F412VGT6TR
STMicroelectronics
IC MCU 32BIT 1MB FLASH 100LQFP



STM32F412CEU6
STMicroelectronics
IC MCU 32BIT 512KB FLASH 48UFQFPN



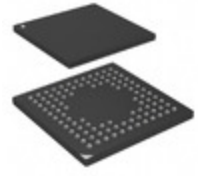
STM32F412RGT6
STMicroelectronics
IC MCU 32BIT 1MB FLASH 64LQFP



STM32F412VEH3TR
STMicroelectronics
IC MCU 32BIT 512KB FLASH 100UFBGA



STM32F412RET6TR
STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32F412VGH6
STMicroelectronics
IC MCU 32BIT 1MB FLASH 100UFBGA



STM32F412RET6
STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32F412VGT6
STMicroelectronics
IC MCU 32BIT 1MB FLASH 100LQFP



STM32F412ZET6
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

> 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.



Your Faithful Supply Chain Partner -



Efficient Supply Management



Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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