

Image may be representation.
See specifications for product details.



STM32F412CGU6TR

Manufacturer Part Number	STM32F412CGU6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F412CGU6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 48UFQFPN
Package	48-UFQFN Exposed Pad
Data sheet	STM32F412xE, STM32F412xG.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STM32F412CGU6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F412CGU6TR datasheet/specifications on AllelcoElec.com.
Request a quote for STM32F412CGU6TR, please send us email: info@allelco.com

Specifications

STM32F412CGU6TR Tech Specifications
STM32F412CGU6TR - 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	48-UFQFPN (7x7)	Number of I/O	36
Speed	100MHz	Mounting Type	Surface Mount
Series	STM32F4	EEPROM Size	-
RAM Size	256K x 8	Data Converters	A/D 10x12b
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 ² S, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG
Package / Case	48-UFQFN Exposed Pad	Base Product Number	STM32F412
Package	Tape & Reel (TR)		

Parts with Similar Specifications

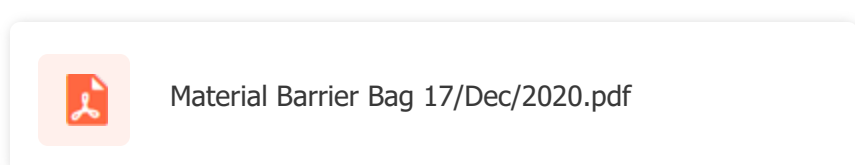
The three parts on the right have similar specifications to STMicroelectronics STM32F412CGU6TR

Product Attribute					
Part Number	STM32F412CGU6TR	STM32F411VET6TR	STM32F412CEU6	STM32F412RGT6TR	
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tape & Reel (TR)	
EEPROM Size	-	-	-	-	
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	
Data Converters	A/D 10x12b	A/D 16x12b	A/D 10x12b	A/D 16x12b	
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	
Program Memory Size	1MB (1M x 8)	512KB (512K x 8)	512KB (512K x 8)	1MB (1M x 8)	
RAM Size	256K x 8	128K x 8	256K x 8	256K x 8	
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	
Number of I/O	36	81	36	50	
Speed	100MHz	100MHz	100MHz	100MHz	
Package / Case	48-UFQFN Exposed Pad	100-LQFP	48-UFQFN Exposed Pad	64-LQFP	
Supplier Device Package	48-UFQFPN (7x7)	100-LQFP (14x14)	48-UFQFPN (7x7)	64-LQFP (10x10)	
Oscillator Type	Internal	Internal	Internal	Internal	
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount	
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	
Base Product Number	STM32F412	STM32F411	STM32F412	STM32F412	
Program Memory Type	FLASH	FLASH	FLASH	FLASH	
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	I ² C, IrDA, LINbus, MMC/SD/SDIO, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG	
Series	STM32F4	STM32F4	STM32F4	STM32F4	

STM32F412CGU6TR Datasheet PDF

Download STM32F412CGU6TR pdf datasheets and STMicroelectronics documentation for STM32F412CGU6TR - STMicroelectronics.

PCN Packaging


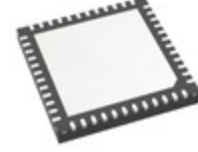










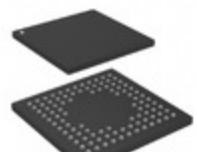
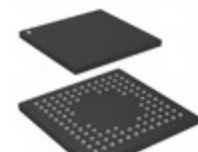


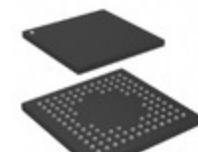



PCN Assembly/Origin

HTML Datasheet

Customers Also Interested in

Recommended Products

 STM32F411VET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 STM32F412CEU6 STMicroelectronics IC MCU 32BIT 512KB FL5H 48UFQFPN	 STM32F412RGT6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 64LQFP	 STM32F411VET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 STM32F411VCH6 STMicroelectronics IC MCU 32BIT 256KB FL5H 100UFBGA	 STM32F411VCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 100LQFP
 STM32F412RGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 64LQFP	 STM32F412RET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	 STM32F412CGU6 STMicroelectronics IC MCU 32BIT 1MB FLASH 48UFQFPN	 STM32F412RET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	 STM32F412RGY6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 64WLCSP	 STM32F412VET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP
 STM32F411VEH6TR STMicroelectronics IC MCU 32BIT 512KB FL5H 100UFBGA	 STM32F412VEH3TR STMicroelectronics IC MCU 32BIT 512KB FL5H 100UFBGA	 STM32F411RET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	 STM32F412REY6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64WLCSP	 STM32F412VEH6 STMicroelectronics IC MCU 32BIT 512KB FL5H 100UFBGA	 STM32F411RET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP

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



View More

Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong
Phone: +00852 9146 4856
Fax: +00852 3010 8510
Email: info@Allelco.com