

Image may be representation.
See specifications for product details.



STM32F412VEH3TR

Manufacturer Part Number	STM32F412VEH3TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F412VEH3TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLSH 100UFBGA
Package	100-UFBGA
Data sheet	STM32F412xE, STM32F412xG.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STM32F412VEH3TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F412VEH3TR datasheet/specifications on AllelcoElec.com.
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Specifications

STM32F412VEH3TR Tech Specifications
STM32F412VEH3TR - 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-UFBGA (7x7)	Number of I/O	81
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	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB OTG
Package / Case	100-UFBGA	Base Product Number	STM32F412
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F412VEH3TR

Product Attribute				
Part Number	STM32F412VEH3TR	STM32F412VEH6	STM32F412REY6TR	STM32F412ZGJ6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Supplier Device Package	100-UFBGA (7x7)	100-UFBGA (7x7)	64-WLCSP (3.62x3.65)	144-UFBGA (10x10)
Base Product Number	STM32F412	STM32F412	STM32F412	STM32F412
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT
Package / Case	100-UFBGA	100-UFBGA	64-UFBGA, WLCSP	144-UFBGA
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Number of I/O	81	81	50	114
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Package	Tape & Reel (TR)	Tray	Tape & Reel (TR)	Tray
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	256K x 8	256K x 8	256K x 8	256K x 8
Connectivity	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	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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Data Converters	A/D 16x12b	A/D 16x12b	A/D 16x12b	A/D 16x12b
Speed	100MHz	100MHz	100MHz	100MHz
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)	1MB (1M x 8)
EEPROM Size	-	-	-	-
Series	STM32F4	STM32F4	STM32F4	STM32F4

STM32F412VEH3TR Datasheet PDF

Download STM32F412VEH3TR pdf datasheets and STMicroelectronics documentation for STM32F412VEH3TR - STMicroelectronics.

PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

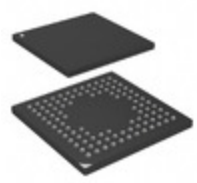

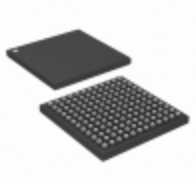
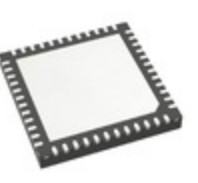



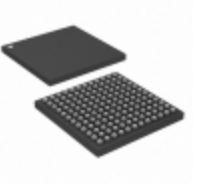

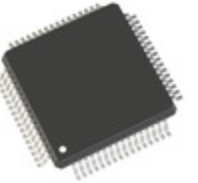



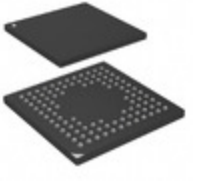
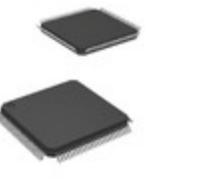



HTML Datasheet

PCN Assembly/Origin

Mult Dev A/T Chgs 13/Dec/2021.pdf

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Recommended Products

					
STM32F412VEH6 STMicroelectronics IC MCU 32BIT 512KB FLSH 100UFBGA	STM32F412REY6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64WLCSP	STM32F412ZGJ6 STMicroelectronics IC MCU 32BIT 1MB FLASH 144UFBGA	STM32F412CGU6 STMicroelectronics IC MCU 32BIT 1MB FLASH 48UFQFPN	STM32F412VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32F412RGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 64LQFP
					
STM32F412ZGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	STM32F412ZGJ6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 144UFBGA	STM32F412VET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	STM32F412RET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	STM32F412RGY6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 64WLCSP	STM32F411VET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP
					
STM32F412RET6TR STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	STM32F412VGH6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100UFBGA	STM32F412VGT6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32F412CEU6 STMicroelectronics IC MCU 32BIT 512KB FLSH 48UFQFPN	STM32F412ZET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	STM32F412RGT6TR STMicroelectronics IC MCU 32BIT 1MB 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 -

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Contact us if you have any questions.

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