



Image may be representation.
See specifications for product details.



STM32H743VIT6

Manufacturer Part Number	STM32H743VIT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32H743VIT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 100LQFP
Package	100-LQFP
Data sheet	STM32H743xI Datasheet.pdf
RoHs Status	ROHS3 Compliant

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STM32H743VIT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32H743VIT6 datasheet/specifications on AllelcoElec.com.
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Specifications

STM32H743VIT6 Tech Specifications
STM32H743VIT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	82
Speed	480MHz	Mounting Type	Surface Mount
Series	STM32H7	EEPROM Size	-
RAM Size	1M x 8	Data Converters	A/D 36x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	2MB (2M x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32H743
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H743VIT6

Product Attribute		life.augmented			
Part Number	STM32H743VIT6	STM32H743VGT6	STM32H743IIK6TR	STM32H745IIT6	
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	
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M4/M7	
Oscillator Type	Internal	Internal	Internal	Internal	
Speed	480MHz	480MHz	480MHz	240MHz, 480MHz	
Data Converters	A/D 36x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 28x16b; D/A 2x12b	
Package	Tray	Tray	Tape & Reel (TR)	Tray	
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	176+25UFBGA (10x10)	176-LQFP (24x24)	
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Dual-Core	
Series	STM32H7	STM32H7	STM32H7	STM32H7	
Connectivity	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	
Package / Case	100-LQFP	100-LQFP	201-UFBGA	176-LQFP	
Base Product Number	STM32H743	STM32H743	STM32H743	STM32H745	
EEPROM Size	-	-	-	-	
Program Memory Type	FLASH	FLASH	FLASH	FLASH	
RAM Size	1M x 8	1M x 8	1M x 8	1M x 8	
Program Memory Size	2MB (2M x 8)	1MB (1M x 8)	2MB (2M x 8)	2MB (2M x 8)	
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	82	82	140	119	
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount	

STM32H743VIT6 Datasheet PDF

Download STM32H743VIT6 pdf datasheets and STMicroelectronics documentation for STM32H743VIT6 - STMicroelectronics.

Datasheets

STM32H743xI Datasheet.pdf

PCN Packaging

PCN Packaging

PCN Design/Specification

STM32Hx 28/Jun/2022.pdf

STM32H7y Datasheet Chg 25/Jul/2018.pdf

Errata


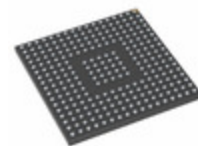

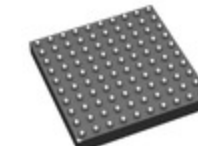
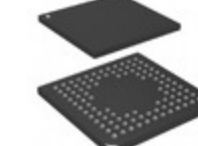


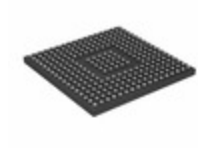






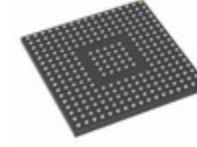



STM32H743xI Errata.pdf

PCN Assembly/Origin

STM32H743, STM32H753 & STM32H750 07/Apr/2019.pdf

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STM32H743VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32H743IIK6TR STMicroelectronics IC MCU 32BIT 2MB FLASH 176UFBGA	STM32H745IIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	STM32H743VIH6TR STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	STM32H743VIH6 STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	STM32H743XIH6TR STMicroelectronics CONTROLLER / PROCESSOR
					
STM32H743VIT6,32 STMicroelectronics	STM32H743XIH6 STMicroelectronics IC MCU 32BIT 2MB FLASH TFBGA	STM32H743IGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP	STM32H743BIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 208LQFP	STM32H743IIT6,32 STMicroelectronics	STM32H745BIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 208LQFP
					
STM32H745ZIT3 STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	STM32H743ZIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	STM32H743IIK6 STMicroelectronics IC MCU 32BIT 2MB FLASH 176UFBGA	STM32H743IIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	STM32H743ZGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	STM32H745ZGT6 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.

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