



Image may be representation.  
See specifications for product details.



## STM32H743ZIT6

Manufacturer Part Number	<b>STM32H743ZIT6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32H743ZIT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 144LQFP
Package	144-LQFP
Data sheet	<b>STM32H743xI Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STM32H743ZIT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32H743ZIT6 datasheet/specifications on AllelcoElec.com.  
Request a quote for STM32H743ZIT6, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STM32H743ZIT6 Tech Specifications  
STM32H743ZIT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	114
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, I <sup>2</sup> S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	STM32H743
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H743ZIT6

Product Attribute				
Part Number	STM32H743ZIT6	STM32H745ZIT3	STM32H750IBT6	STM32H747XIH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Data Converters	A/D 36x16b; D/A 2x12b	A/D 23x16b; D/A 2x12b	A/D 32x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT
Package / Case	144-LQFP	144-LQFP	176-LQFP	265-TFBGA
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M4/M7	ARM® Cortex®-M7	ARM® Cortex®-M4/M7
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	STM32H7	STM32H7	STM32H7	STM32H7
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
Speed	480MHz	240MHz, 480MHz	480MHz	240MHz, 480MHz
Package	Tray	Tray	Tray	Tray
Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Core Size	32-Bit Single-Core	32-Bit Dual-Core	32-Bit Single-Core	32-Bit Dual-Core
Number of I/O	114	97	140	168
RAM Size	1M x 8	1M x 8	1M x 8	1M x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	STM32H743	STM32H745	STM32H750	STM32H747
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	176-LQFP (24x24)	240+25-TFBGA (14x14)
EEPROM Size	-	-	-	-
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	128KB (128K x 8)	2MB (2M x 8)

### STM32H743ZIT6 Datasheet PDF

Download STM32H743ZIT6 pdf datasheets and STMicroelectronics documentation for STM32H743ZIT6 - STMicroelectronics.

#### Datasheets

STM32H743xI Datasheet.pdf

#### PCN Packaging

PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

### PCN Design/Specification

Mult Dev Material Chgs 28/Feb/2023.pdf

STM32Hx 28/Jun/2022.pdf

### PCN Assembly/Origin

Mult Dev Assembly Add 8/Mar/2019.pdf

### Errata

STM32H743xI Errata.pdf

## Customers Also Interested in

### Recommended Products



**STM32H745ZIT3**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 144LQFP



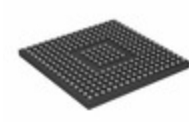
**STM32H743VIT6,32**  
STMicroelectronics



**STM32H743IIT6,32**  
STMicroelectronics



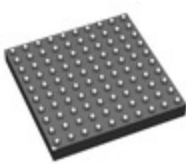
**STM32H750IBT6**  
STMicroelectronics  
IC MCU 32BIT 128KB FLASH 176LQFP



**STM32H747XIH6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH TFBGA



**STM32H743VGT6**  
STMicroelectronics  
IC MCU 32BIT 1MB FLASH 100LQFP



**STM32H743VIH6TR**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 100TFBGA



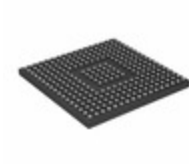
**STM32H745BIT6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 208LQFP



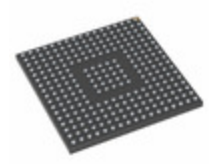
**STM32H745ZIT6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 144LQFP



**STM32H743VIT6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 100LQFP



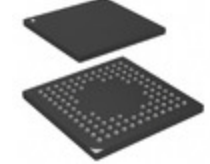
**STM32H743XIH6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH TFBGA



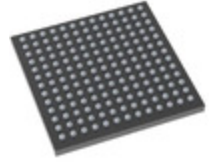
**STM32H750IBK6**  
STMicroelectronics  
IC MCU 32BIT 128KB FLSH 176UFBGA



**STM32H745IIT6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 176LQFP



**STM32H743VIH6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 100TFBGA



**STM32H747AII6**  
STMicroelectronics  
IC MCU 32BIT 2MB FLASH 169UFBGA



**STM32H745ZGT6**  
STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144LQFP



**STM32H743ZGT6**  
STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144LQFP



**STM32H743XIH6TR**  
STMicroelectronics  
CONTROLLER / PROCESSOR

## 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

