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See specifications for product details.



## STM32F103R8H7

Manufacturer Part Number	<b>STM32F103R8H7</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F103R8H7
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 64TFBGA
Package	64-TFBGA
Data sheet	<b>STM32F103x(8,B) Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32F103R8H7 Tech Specifications

STM32F103R8H7 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	64-TFBGA (5x5)	Number of I/O	51
Speed	72MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	20K x 8	Data Converters	A/D 16x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	64-TFBGA	Base Product Number	STM32F103
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F103R8H7

Product Attribute				
Part Number	STM32F103R8H7	<b>STM32F103RBH7</b>	<b>STM32F103RBH6TR</b>	<b>STM32F103R4H6A</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	STM32F103	STM32F103	STM32F103	STM32F103
Supplier Device Package	64-TFBGA (5x5)	64-TFBGA (5x5)	64-TFBGA (5x5)	64-TFBGA (5x5)
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT
EEPROM Size	-	-	-	-
Program Memory Size	64KB (64K x 8)	128KB (128K x 8)	128KB (128K x 8)	16KB (16K x 8)
Speed	72MHz	72MHz	72MHz	72MHz
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	STM32F1	STM32F1	STM32F1	STM32F1
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tray	Tray	Tape & Reel (TR)	Tray
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB
RAM Size	20K x 8	20K x 8	20K x 8	6K x 8
Package / Case	64-TFBGA	64-TFBGA	64-TFBGA	64-TFBGA
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Data Converters	A/D 16x12b	A/D 16x12b	A/D 16x12b	A/D 16x12b
Number of I/O	51	51	51	51

### STM32F103R8H7 Datasheet PDF

Download STM32F103R8H7 pdf datasheets and STMicroelectronics documentation for STM32F103R8H7 - STMicroelectronics.

#### Datasheets

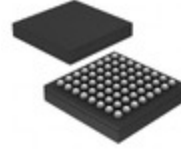

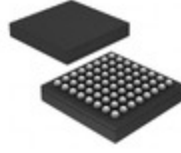
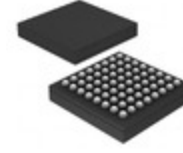
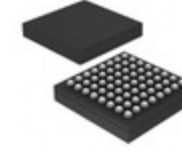
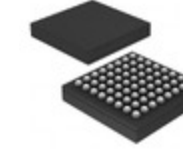



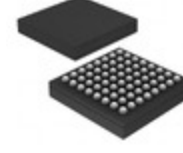



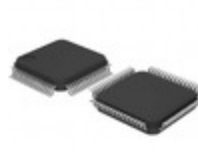




STM32F103x(8,B) Datasheet.pdf

#### PCN Packaging

PCN Assembly/Origin

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 <b>STM32F103R6T6ATR</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 64LQFP	 <b>STM32F103R8T6TR</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 64LQFP	 <b>STM32F103R4H6</b> STMicroelectronics	 <b>STM32F103R6T6A</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 64LQFP	 <b>STM32F103R6T7A</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 64LQFP	 <b>STM32F103R8H6,32</b> STMicroelectronics

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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Certifications & Memberships



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