



Image may be representation.  
See specifications for product details.



## STM32L151R8T6A

Manufacturer Part Number	<b>STM32L151R8T6A</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32L151R8T6A
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 64KB FLASH 64LQFP
Package	64-LQFP
Data sheet	<a href="#">STM32F(10,20,21,L1)zzz Prog. Manual.pdf</a> <a href="#">STM32L(151,152)x(6,8,B-A).pdf</a> <a href="#">STM32L100xx,151xx,152xx,162xx Reference Manual.pdf</a>
RoHs Status	ROHS3 Compliant

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## Specifications

STM32L151R8T6A Tech Specifications

STM32L151R8T6A - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	51
Speed	32MHz	Mounting Type	Surface Mount
Series	STM32L1	EEPROM Size	4K x 8
RAM Size	32K x 8	Data Converters	A/D 20x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	Brown-out Detect/Reset, Cap Sense, DMA, I²S, POR, PWM, WDT	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	64-LQFP	Base Product Number	STM32L151
Package	Tray		

## Parts with Similar Specifications

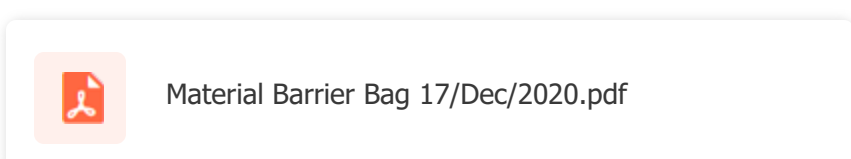
The three parts on the right have similar specifications to STMicroelectronics STM32L151R8T6A

Product Attribute				
Part Number	STM32L151R8T6A	STM32L151RBH6TR	STM32L151RBH6TTR	STM32L151QDH6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Oscillator Type	Internal	Internal	Internal	Internal
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	STM32L1	STM32L1	STM32L1	STM32L1
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V
Supplier Device Package	64-LQFP (10x10)	64-TFBGA (5x5)	64-TFBGA (5x5)	132-UFBGA (7x7)
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 20x12b; D/A 2x12b	A/D 20x12b; D/A 2x12b	A/D 20x12b; D/A 2x12b	A/D 40x12b; D/A 2x12b
EEPROM Size	4K x 8	4K x 8	4K x 8	12K x 8
Program Memory Size	64KB (64K x 8)	128KB (128K x 8)	128KB (128K x 8)	384KB (384K x 8)
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART, USB	I²C, IrDA, LINbus, SPI, UART/USART, USB	I²C, IrDA, LINbus, SPI, UART/USART, USB	I²C, IrDA, LINbus, SPI, UART/USART, USB
Speed	32MHz	32MHz	32MHz	32MHz
Base Product Number	STM32L151	STM32L151	STM32L151	STM32L151
Peripherals	Brown-out Detect/Reset, Cap Sense, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, Cap Sense, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, Cap Sense, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, Cap Sense, DMA, I²S, POR, PWM, WDT
Number of I/O	51	51	51	109
Package / Case	64-LQFP	64-TFBGA	64-TFBGA	132-UFBGA
RAM Size	32K x 8	16K x 8	16K x 8	48K x 8

## STM32L151R8T6A Datasheet PDF

Download STM32L151R8T6A pdf datasheets and STMicroelectronics documentation for STM32L151R8T6A - STMicroelectronics.

### PCN Packaging



### PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

### PCN Design/Specification

Die Revision 21/Dec/2015.pdf

### HTML Datasheet

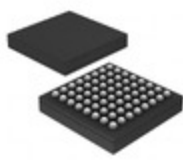
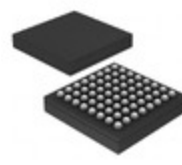
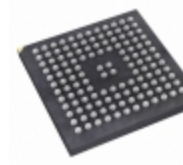
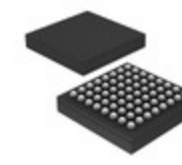

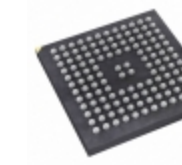
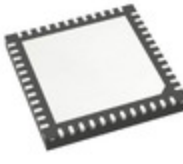

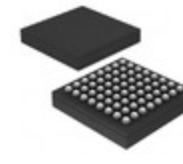

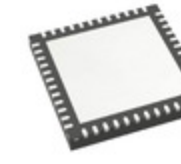
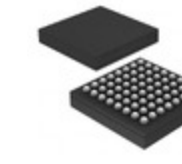

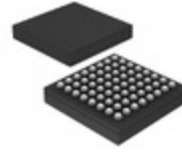



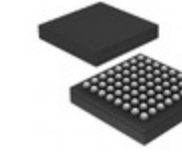
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In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the 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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