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See specifications for product details.



STM32L051R6T6

Manufacturer Part Number **STM32L051R6T6**

Manufacturer **STMicroelectronics**

Allelco Part Number **32D-STM32L051R6T6**

ECAD Model **PCB Symbol, Footprint & 3D Mode**

Parts Description **IC MCU 32BIT 32KB FLASH 64LQFP**

Package **64-LQFP**

Data sheet **STM32L0 Series Programming Manual.pdf**

STM32L051x6, x8 Datasheet.pdf

RoHs Status **ROHS3 Compliant**

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Specifications

STM32L051R6T6 Tech Specifications

STM32L051R6T6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.65V ~ 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	STM32L0	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 16x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	32KB (32K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Connectivity	I ² C, IrDA, SPI, UART/USART
Package / Case	64-LQFP	Base Product Number	STM32L051
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L051R6T6

Product Attribute				
Part Number	STM32L051R6T6	STM32L052K6T6	STM32L051T8Y6DTR	STM32L051K8T6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V
Number of I/O	51	27	29	27
Package / Case	64-LQFP	32-LQFP	36-UFBGA, WLCSFP	32-LQFP
Data Converters	A/D 16x12b	A/D 10x12b; D/A 1x12b	A/D 10x12b	A/D 10x12b
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Speed	32MHz	32MHz	32MHz	32MHz
Program Memory Size	32KB (32K x 8)	32KB (32K x 8)	64KB (64K x 8)	64KB (64K x 8)
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	STM32L051	STM32L052	STM32L051	STM32L051
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Package	Tray	Tray	Tape & Reel (TR)	Tray
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	64-LQFP (10x10)	32-LQFP (7x7)	36-WLCSFP	32-LQFP (7x7)
Connectivity	I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, SPI, UART/USART, USB	I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, SPI, UART/USART
Series	STM32L0	STM32L0	STM32L0	STM32L0
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT

STM32L051R6T6 Datasheet PDF

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PCN Packaging

2.73KHz.pdf

PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

PCN Design/Specification



Datasheet Chg 07/Mar/2016.pdf



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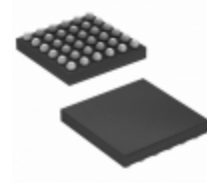
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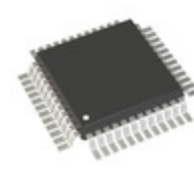
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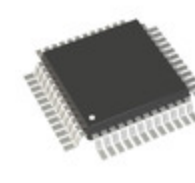
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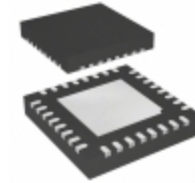
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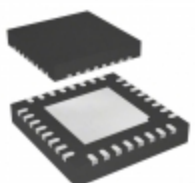
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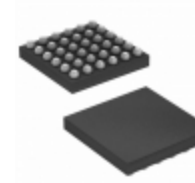
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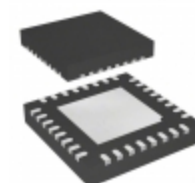
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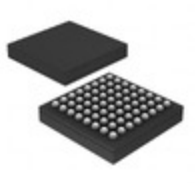
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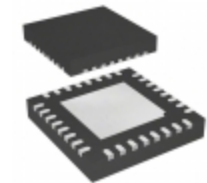
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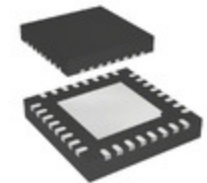
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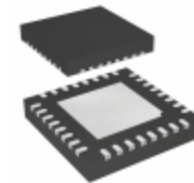
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Shipment

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.



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Efficient Supply Management



Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



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