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See specifications for product details.



STM32L051C6T6

Manufacturer Part Number	STM32L051C6T6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L051C6T6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 32KB FLASH 48LQFP
Package	48-LQFP
Data sheet	STM32L0 Series Programming Manual.pdf STM32L051x6, x8 Datasheet.pdf
RoHs Status	ROHS3 Compliant

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STM32L051C6T6 - STMicroelectronics. New Original in Stock. Download Linear Technology STM32L051C6T6 datasheet/specifications on AllelcoElec.com.
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Specifications

STM32L051C6T6 Tech Specifications

STM32L051C6T6 - 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	48-LQFP (7x7)	Number of I/O	37
Speed	32MHz	Mounting Type	Surface Mount
Series	STM32L0	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 10x12b
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	48-LQFP	Base Product Number	STM32L051
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L051C6T6

Product Attribute				
Part Number	STM32L051C6T6	STM32L051C8T6TR	STM32L031K6T7	STM32L031K6T6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Program Memory Size	32KB (32K x 8)	64KB (64K x 8)	32KB (32K x 8)	32KB (32K x 8)
Oscillator Type	Internal	Internal	Internal	Internal
Package / Case	48-LQFP	48-LQFP	32-LQFP	32-LQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Number of I/O	37	37	25	25
Package	Tray	Tape & Reel (TR)	Tray	Tray
Series	STM32L0	STM32L0	STM32L0	STM32L0
Connectivity	I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, LINbus, SPI, UART/USART	I ² C, IrDA, LINbus, SPI, UART/USART
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	32MHz	32MHz	32MHz	32MHz
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	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
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V
Data Converters	A/D 10x12b	A/D 10x12b	A/D 10x12b	A/D 10x12b
Base Product Number	STM32L051	STM32L051	STM32L031	STM32L031
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	48-LQFP (7x7)	48-LQFP (7x7)	32-LQFP (7x7)	32-LQFP (7x7)
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
EEPROM Size	2K x 8	2K x 8	1K x 8	1K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8

STM32L051C6T6 Datasheet PDF

Download STM32L051C6T6 pdf datasheets and STMicroelectronics documentation for STM32L051C6T6 - STMicroelectronics.

PCN Packaging

[Material Barrier Bag 17/Dec/2020.pdf](#)

[Box Label Chg 28/Jul/2016.pdf](#)

PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

PCN Design/Specification

Datasheet Chg 07/Mar/2016.pdf

LQFP 48 7x7 Products Increased Capacity 21/Dec/201.pdf





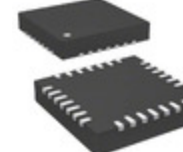
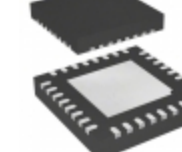
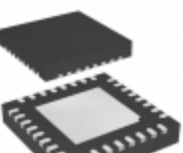
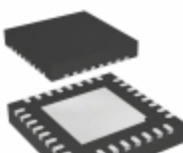


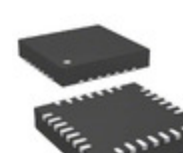



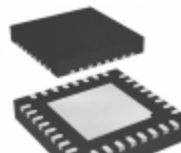

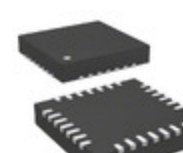
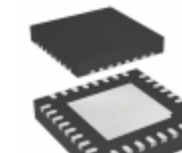
HTML Datasheet

STM32L0 Series Programming Manual.pdf

STM32L051x6, x8 Datasheet.pdf

Customers Also Interested in

Recommended Products

					
STM32L051C8T6TR STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	STM32L031K6T7 STMicroelectronics IC MCU 32BIT 32KB FLASH 32LQFP	STM32L031K6T6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32LQFP	STM32L051K6T6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32LQFP	STM32L031G6U7 STMicroelectronics IC MCU 32BIT 32KB FLASH 28UFQFPN	STM32L031K6U6TR STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN
					
STM32L051K8U3 STMicroelectronics IC MCU 32BIT 64KB FLASH 32UFQFPN	STM32L031K6U6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN	STM32L051K8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP	STM32L031G6U7TR STMicroelectronics IC MCU 32BIT 32KB FLASH 28UFQFPN	STM32L031G6U6TR STMicroelectronics IC MCU 32BIT 32KB FLASH 28UFQFPN	STM32L051C8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP
					
STM32L051K8T6TR STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP	STM32L041F6P7 STMicroelectronics IC MCU 32BIT 32KB FLASH 20TSSOP	STM32L051K6U6TR STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN	STM32L051C8T7TR STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	STM32L031G6U6 STMicroelectronics IC MCU 32BIT 32KB FLASH 28UFQFPN	STM32L051K6U6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN

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

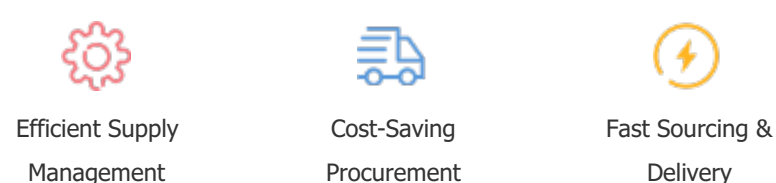
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

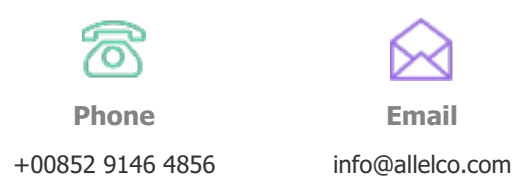
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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