



Image may be representation.
See specifications for product details.



STM32L431RCT6TR

Manufacturer Part Number	STM32L431RCT6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L431RCT6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 256KB FLASH 64LQFP
Package	64-LQFP
Data sheet	STM32L431CB.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STM32L431RCT6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32L431RCT6TR datasheet/specifications on AllelcoElec.com.
Request a quote for STM32L431RCT6TR, please send us email: info@allelco.com

Specifications

STM32L431RCT6TR Tech Specifications
STM32L431RCT6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	52
Speed	80MHz	Mounting Type	Surface Mount
Series	STM32L4	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, SWPMI, UART/USART
Package / Case	64-LQFP	Base Product Number	STM32L431
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L431RCT6TR

Product Attribute				
Part Number	STM32L431RCT6TR	STM32L432KBU6TR	STM32L431RCI6	STM32L431RBI6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Data Converters	A/D 16x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Base Product Number	STM32L431	STM32L432	STM32L431	STM32L431
Supplier Device Package	64-LQFP (10x10)	32-UFQFPN (5x5)	64-UFBGA (5x5)	64-UFBGA (5x5)
Peripherals	Brown-out Detect/Reset, DMA, PWM, WDT	Brown-out Detect/Reset, DMA, PWM, WDT	Brown-out Detect/Reset, DMA, PWM, WDT	Brown-out Detect/Reset, DMA, PWM, WDT
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Number of I/O	52	26	52	52
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tray
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Speed	80MHz	80MHz	80MHz	80MHz
Series	STM32L4	STM32L4	STM32L4	STM32L4
Program Memory Type	FLASH	FLASH	FLASH	FLASH
EEPROM Size	-	-	-	-
Program Memory Size	256KB (256K x 8)	128KB (128K x 8)	256KB (256K x 8)	128KB (128K x 8)
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Package / Case	64-LQFP	32-UFQFN Exposed Pad	64-UFBGA	64-UFBGA
Connectivity	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, SWPMI, UART/USART	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, SWPMI, UART/USART, USB	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, SWPMI, UART/USART	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, SWPMI, UART/USART

STM32L431RCT6TR Datasheet PDF

Download STM32L431RCT6TR pdf datasheets and STMicroelectronics documentation for STM32L431RCT6TR - STMicroelectronics.


Datasheets

[STM32L431CB.pdf](#)

PCN Packaging

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

PCN Design/Specification

 Mult Dev Material Chgs 28/Feb/2023.pdf

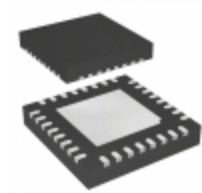
 STM LQFP 29-Apr-2022.pdf

PCN Assembly/Origin

 STM8/STM32 10/Mar/2020.pdf

Customers Also Interested in

Recommended Products



STM32L432KBU6TR

STMicroelectronics
IC MCU 32BIT 128KB FLASH
32UFQFPN



STM32L431RCI6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
64UFBGA



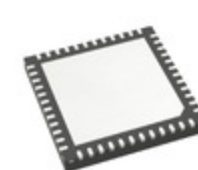
STM32L431RBI6

STMicroelectronics
IC MCU 32BIT 128KB FLASH
64UFBGA



STM32L433CBU6

STMicroelectronics
IC MCU 32BIT 128KB FLASH
48UFQFPN



STM32L433CCU3

STMicroelectronics
IC MCU 32BIT 256KB FLASH
48UFQFPN



STM32L433CCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH 48LQFP



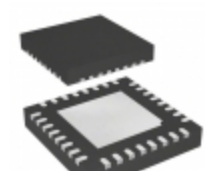
STM32L431VCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
100LQFP



STM32L431RCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP



STM32L432KBU6

STMicroelectronics
IC MCU 32BIT 128KB FLASH
32UFQFPN



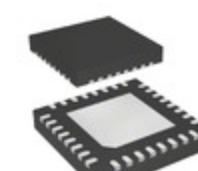
STM32L433CCU6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
48UFQFPN



STM32L433CBT6

STMicroelectronics
IC MCU 32BIT 128KB FLASH 48LQFP



STM32L432KCU6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
32UFQFPN



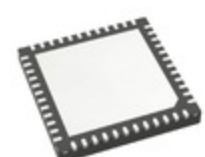
STM32L431RBT6TR

STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP



STM32L431RCI6TR

STMicroelectronics
CONTROLLER / PROCESSOR



STM32L433CCU3TR

STMicroelectronics
IC MCU 32BIT 256KB FLASH
48UFQFPN



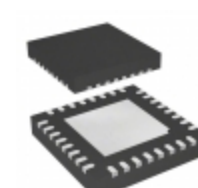
STM32L431LCCI6

STMicroelectronics



STM32L431RBT6

STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP



STM32L431KCU6TR

STMicroelectronics
IC MCU 32BIT 256KB 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 -



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

