



STM32L431RCI6

Manufacturer Part Number	STM32L431RCI6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L431RCI6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 256KB FLASH 64UFBGA
Package	64-UFBGA
Data sheet	STM32L431xx Datasheet.pdf
RoHs Status	ROHS3 Compliant



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Specifications

STM32L431RCI6 Tech Specifications

STM32L431RCI6 - 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-UFBGA (5x5)	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-UFBGA	Base Product Number	STM32L431
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L431RCI6

Product Attribute	NO PICTURE			
Part Number	STM32L431RCI6	STM32L431RBT6	STM32L431RB16	STM32L432KBU6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	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	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
Supplier Device Package	64-UFBGA (5x5)	64-LQFP (10x10)	64-UFBGA (5x5)	32-UFQFPN (5x5)
EEPROM Size	-	-	-	-
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Package	Tray	Tray	Tray	Tape & Reel (TR)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
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
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b
Program Memory Size	256KB (256K x 8)	128KB (128K x 8)	128KB (128K x 8)	128KB (128K x 8)
Package / Case	64-UFBGA	64-LQFP	64-UFBGA	32-UFQFN Exposed Pad
Base Product Number	STM32L431	STM32L431	STM32L431	STM32L432
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Speed	80MHz	80MHz	80MHz	80MHz
Number of I/O	52	52	52	26
Series	STM32L4	STM32L4	STM32L4	STM32L4

STM32L431RCI6 Datasheet PDF

Download STM32L431RCI6 pdf datasheets and STMicroelectronics documentation for STM32L431RCI6 - STMicroelectronics.

PCN Packaging

2.73KHz.pdf


PCN Assembly/Origin

2.73KHz.pdf

PCN Design/Specification



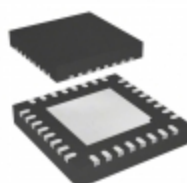

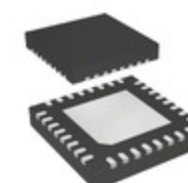
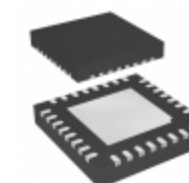
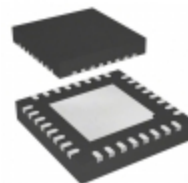
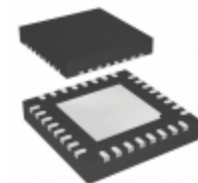
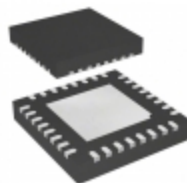

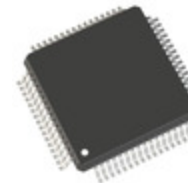





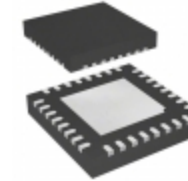
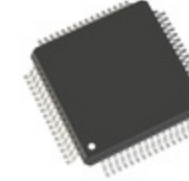
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STM32L431KCU6TR STMicroelectronics IC MCU 32BIT 256KB FLSH 32UFQFPN	STM32L431KCU6 STMicroelectronics IC MCU 32BIT 256KB FLSH 32UFQFPN	STM32L431KBU3 STMicroelectronics IC MCU 32BIT 128KB FLSH 32UFQFPN	STM32L431RCT6TR STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	STM32L431RCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	STM32L431LCCI6 STMicroelectronics
					
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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

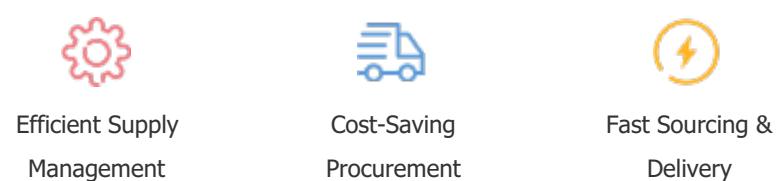
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

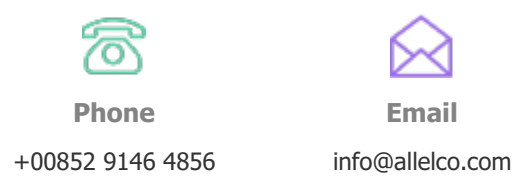
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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Contact us if you have any questions.



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