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See specifications for product details.



STM32L431KBU6

Manufacturer Part Number	STM32L431KBU6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L431KBU6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 128KB FLSH 32UFQFPN
Package	32-UFQFN Exposed Pad
Data sheet	STM32L431xx Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STM32L431KBU6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32L431KBU6 datasheet/specifications on AllelcoElec.com.
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Specifications

STM32L431KBU6 Tech Specifications

STM32L431KBU6 - 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	32-UFQFPN (5x5)	Number of I/O	26
Speed	80MHz	Mounting Type	Surface Mount
Series	STM32L4	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 10x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, SWPMI, UART/USART
Package / Case	32-UFQFN Exposed Pad	Base Product Number	STM32L431
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L431KBU6

Product Attribute				
Part Number	STM32L431KBU6	STM32L431RCT6	STM32L431RCI6TR	STM32L431RBT6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	STM32L431	STM32L431	-	STM32L431
Number of I/O	26	52	52	52
Package / Case	32-UFQFN Exposed Pad	64-LQFP	64-UFBGA	64-LQFP
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
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
Program Memory Size	128KB (128K x 8)	256KB (256K x 8)	256KB (256K x 8)	128KB (128K x 8)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
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
Connectivity	CANbus, I ² C, IrDA, LINbus, 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, MMC/SD, QSPI, SAI, SPI, SWPMI, UART/USART
Package	Tray	Tray	Tape & Reel (TR)	Tape & Reel (TR)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Oscillator Type	Internal	Internal	External, Internal	Internal
Supplier Device Package	32-UFQFPN (5x5)	64-LQFP (10x10)	64-UFBGA (5x5)	64-LQFP (10x10)
Data Converters	A/D 10x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b SAR; D/A 2x12b	A/D 16x12b; D/A 2x12b
Series	STM32L4	STM32L4	STM32L4	STM32L4

STM32L431KBU6 Datasheet PDF

Download STM32L431KBU6 pdf datasheets and STMicroelectronics documentation for STM32L431KBU6 - STMicroelectronics.

PCN Packaging

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


PCN Assembly/Origin

[Multi Dev 21/Sep/2022.pdf](#)

PCN Design/Specification

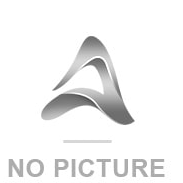




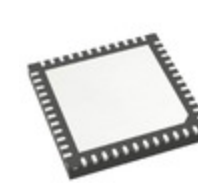
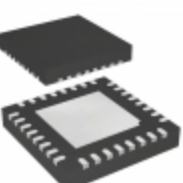



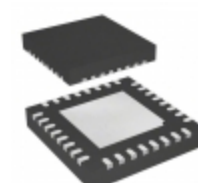
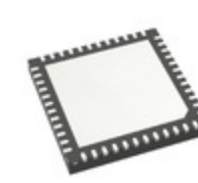

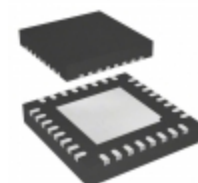




 STM32L4/4+ DS Update 30/May/2018.pdf

HTML Datasheet

 STM32L431xx Datasheet.pdf

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STM32L431CCU6&AR STM	STM32L431RCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	STM32L431RCI6TR STMicroelectronics CONTROLLER / PROCESSOR	STM32L431RBT6TR STMicroelectronics IC MCU 32BIT 128KB FLASH 64LQFP	STM32L431CCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 48LQFP	STM32L431CCU6TR STMicroelectronics IC MCU 32BIT 256KB FLSH 48UFQFPN
					
STM32L431KBU3 STMicroelectronics IC MCU 32BIT 128KB FLSH 32UFQFPN	STM32L431RCI6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64UFBGA	STM32L431CCY6 STMicroelectronics	STM32L431CCT6TR STMicroelectronics IC MCU 32BIT 256KB FLASH 48LQFP	STM32L431KCU6 STMicroelectronics IC MCU 32BIT 256KB FLSH 32UFQFPN	STM32L431CCU6 STMicroelectronics IC MCU 32BIT 256KB FLSH 48UFQFPN
					
STM32L431LCCI6 STMicroelectronics	STM32L431KCU6TR STMicroelectronics IC MCU 32BIT 256KB FLSH 32UFQFPN	STM32L431CCY6TR STMicroelectronics IC MCU 32BIT 256KB FLASH 49WL CSP	STM32L431RBI6 STMicroelectronics IC MCU 32BIT 128KB FLASH 64UFBGA	STM32L431RBT6 STMicroelectronics IC MCU 32BIT 128KB FLASH 64LQFP	STM32L431CUBY6TR STMicroelectronics IC MCU 32BIT 128KB FLASH 49WL CSP

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

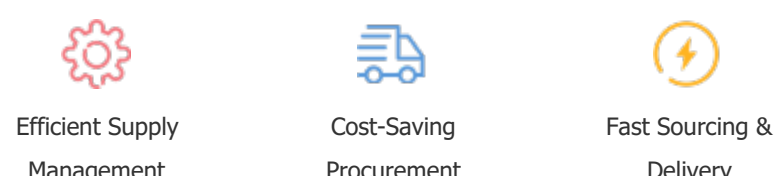
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

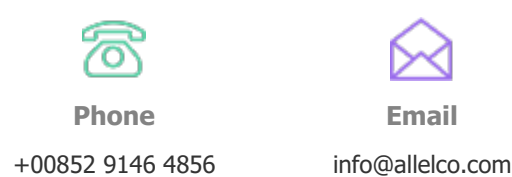
The payment method can be chosen from the methods shown below:
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Contact us if you have any questions.



Certifications & Memberships



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