



STM32L451REY6TR

Manufacturer Part Number	STM32L451REY6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L451REY6TR
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 512KB FLASH 64WLCSP
Package	64-UFBGA, WLCSP
Data sheet	STM32L451xx Datasheet.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32L451REY6TR Tech Specifications
STM32L451REY6TR - 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-WLCSP (3.36x3.66)	Number of I/O	52
Speed	80MHz	Mounting Type	Surface Mount
Series	STM32L4	EEPROM Size	-
RAM Size	160K x 8	Data Converters	A/D 16x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K 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, UART/USART
Package / Case	64-UFBGA, WLCSP	Base Product Number	STM32L451
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L451REY6TR

Product Attribute				
Part Number	STM32L451REY6TR	STM32L452CEU6	STM32L452RCT6	STM32L451CCU3
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Oscillator Type	Internal	Internal	Internal	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Data Converters	A/D 16x12b; D/A 1x12b	A/D 10x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b	A/D 10x12b; D/A 1x12b
Package / Case	64-UFBGA, WLCSP	48-UFQFN Exposed Pad	64-LQFP	48-UFQFN Exposed Pad
Connectivity	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART, USB	CANbus, I ² C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART
Package	Tape & Reel (TR)	Tray	Tray	Tray
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
RAM Size	160K x 8	160K x 8	160K x 8	160K x 8
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	256KB (256K x 8)	256KB (256K x 8)
Supplier Device Package	64-WLCSP (3.36x3.66)	48-UFQFPN (7x7)	64-LQFP (10x10)	48-UFQFPN (7x7)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Number of I/O	52	38	52	38
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	80MHz	80MHz	80MHz	80MHz
EEPROM Size	-	-	-	-
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 ~ 125°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	STM32L451	STM32L452	STM32L452	STM32L451
Series	STM32L4	STM32L4	STM32L4	STM32L4

STM32L451REY6TR Datasheet PDF

Download STM32L451REY6TR pdf datasheets and STMicroelectronics documentation for STM32L451REY6TR - STMicroelectronics.

PCN Design/Specification

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

HTML Datasheet

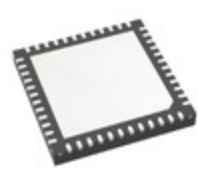
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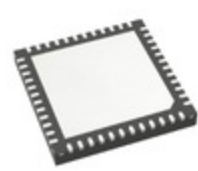
STM32L452CEU6

STMicroelectronics
IC MCU 32BIT 512KB FLSH
48UFQFPN



STM32L452RCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP



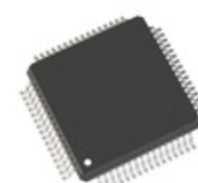
STM32L451CCU3

STMicroelectronics
IC MCU 32BIT 256KB FLSH
48UFQFPN



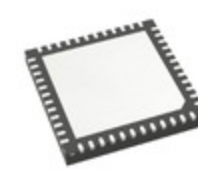
STM32L451RET6

STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32L452RET6P

STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32L451CEU6

STMicroelectronics
IC MCU 32BIT 512KB FLSH
48UFQFPN



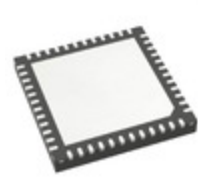
STM32L452RET6TR

STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32L451RCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP



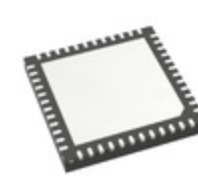
STM32L451CCU6

STMicroelectronics
IC MCU 32BIT 256KB FLSH
48UFQFPN



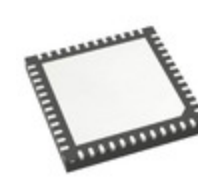
STM32L443VCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
100LQFP



STM32L452CCU6

STMicroelectronics
IC MCU 32BIT 256KB FLSH
48UFQFPN



STM32L451CCU6TR

STMicroelectronics
IC MCU 32BIT 256KB FLSH
48UFQFPN



STM32L451VET6

STMicroelectronics
IC MCU 32BIT 512KB FLASH
100LQFP



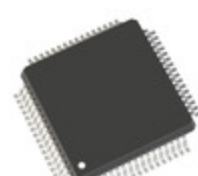
STM32L451VCT6

STMicroelectronics
IC MCU 32BIT 256KB FLASH
100LQFP



STM32L451REI6

STMicroelectronics
IC MCU 32BIT 512KB FLASH
64UFBGA



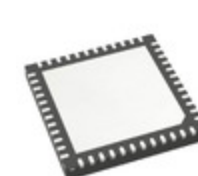
STM32L452RET6

STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32L451RET6TR

STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP



STM32L451CEU6TR

STMicroelectronics
IC MCU 32BIT 512KB FLSH
48UFQFPN

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

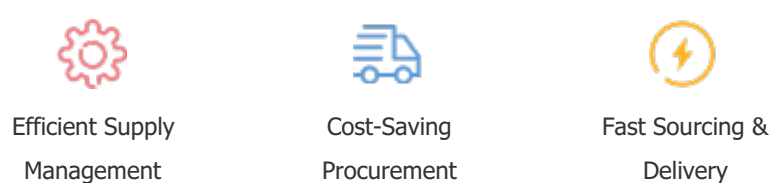
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

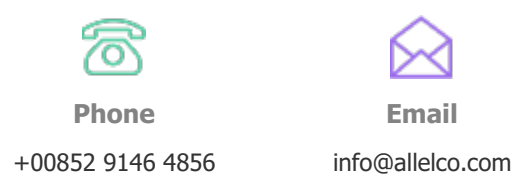
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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