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See specifications for product details.



STM32L4R9AI16

Manufacturer Part Number	STM32L4R9AI16
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L4R9AI16
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 2MB FLASH 169UFBGA
Package	169-UFBGA
Data sheet	STM32L4R9AI16.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32L4R9AI16 Tech Specifications
STM32L4R9AI16 - 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	169-UFBGA (7x7)	Number of I/O	131
Speed	120MHz	Mounting Type	Surface Mount
Series	STM32L4R	EEPROM Size	-
RAM Size	640K x 8	Data Converters	A/D 14x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	2MB (2M x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG
Package / Case	169-UFBGA	Base Product Number	STM32L4R9
Package	Tray		

Parts with Similar Specifications

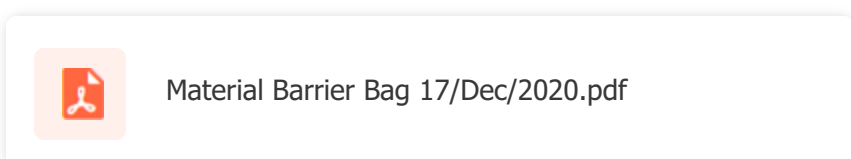
The three parts on the right have similar specifications to STMicroelectronics STM32L4R9AI16

Product Attribute				
Part Number	STM32L4R9AI16	STM32L4R9ZIY6TR	STM32L4R9ZIT6	STM32L4R9ZIJ6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Number of I/O	131	112	112	112
EEPROM Size	-	-	-	-
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
Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT
Speed	120MHz	120MHz	120MHz	120MHz
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Series	STM32L4R	STM32L4R	STM32L4R	STM32L4R
RAM Size	640K x 8	640K x 8	640K x 8	640K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	169-UFBGA	144-UFBGA, WLCSP	144-LQFP	144-UFBGA
Package	Tray	Tape & Reel (TR)	Tray	Tray
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	2MB (2M x 8)	2MB (2M x 8)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG
Base Product Number	STM32L4R9	STM32L4R9	STM32L4R9	STM32L4R9
Data Converters	A/D 14x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Supplier Device Package	169-UFBGA (7x7)	144-WLCSP (5.24x5.24)	144-LQFP (20x20)	144-UFBGA (10x10)

STM32L4R9AI16 Datasheet PDF

Download STM32L4R9AI16 pdf datasheets and STMicroelectronics documentation for STM32L4R9AI16 - STMicroelectronics.

PCN Packaging

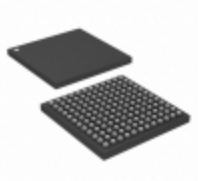

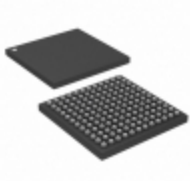



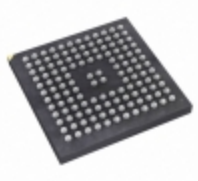




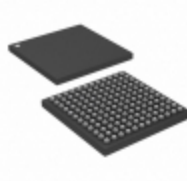

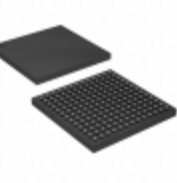
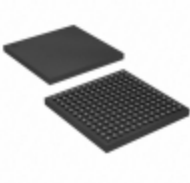





PCN Assembly/Origin

PCN Design/Specification

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STM32L4R5QII6 STMicroelectronics IC MCU 32BIT 2MB FLASH 132UFBGA	STM32L4R5QII6P STMicroelectronics IC MCU 32BIT 2MB FLASH 132UFBGA	STM32L552VET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	STM32L4R5VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32L552CCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 48LQFP	STM32L4R9ZIY6PTR STMicroelectronics IC MCU 32BIT 2MB FLASH 144WLCSP
					
STM32L4S5ZIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	STM32L4R5AII6 STMicroelectronics IC MCU 32BIT 2MB FLASH 169UFBGA	STM32L4R9AGI6 STMicroelectronics IC MCU 32BIT 1MB FLASH 169UFBGA	STM32L4R5VIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP	STM32L552RET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	STM32L4R5ZIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP

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.

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Phone: +00852 9146 4856
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