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See specifications for product details.



## STM32L4R9ZIY6PTR

Manufacturer Part Number	<b>STM32L4R9ZIY6PTR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32L4R9ZIY6PTR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 144WLCSP
Package	144-UFBGA, WLCSP
Data sheet	STM32L4R9ZIY6PTR.pdf
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32L4R9ZIY6PTR Tech Specifications  
STM32L4R9ZIY6PTR - 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	144-WLCSP (5.24x5.24)	Number of I/O	112
Speed	120MHz	Mounting Type	Surface Mount
Series	STM32L4R	EEPROM Size	-
RAM Size	640K x 8	Data Converters	A/D 16x12b; 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 <sup>2</sup> C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG
Package / Case	144-UFBGA, WLCSP	Base Product Number	STM32L4R9
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L4R9ZIY6PTR

Product Attribute				
Part Number	STM32L4R9ZIY6PTR	STM32L4S5ZIT6	STM32L552VET6	STM32L552RET6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, PWM, WDT	Brown-out Detect/Reset, DMA, PWM, WDT
Package / Case	144-UFBGA, WLCSP	144-LQFP	100-LQFP	64-LQFP
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 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Package	Tape & Reel (TR)	Tray	Tray	Tray
Base Product Number	STM32L4R9	STM32L4S5	STM32L552	STM32L552
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	STM32L4R	STM32L4S	STM32L5	STM32L5
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M33	ARM® Cortex®-M33
Speed	120MHz	120MHz	110MHz	110MHz
Number of I/O	112	115	83	52
Supplier Device Package	144-WLCSP (5.24x5.24)	144-LQFP (20x20)	100-LQFP (14x14)	64-LQFP (10x10)
RAM Size	640K x 8	640K x 8	256K x 8	256K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, SAI, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, QSPI, SAI, SPI, UART/USART, USB
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	512KB (512K x 8)	512KB (512K x 8)

### STM32L4R9ZIY6PTR Datasheet PDF

Download STM32L4R9ZIY6PTR pdf datasheets and STMicroelectronics documentation for STM32L4R9ZIY6PTR - STMicroelectronics.








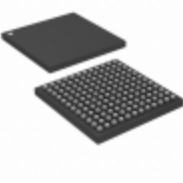
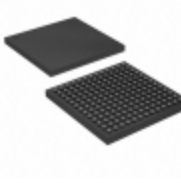


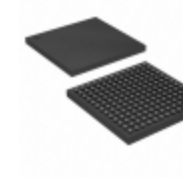


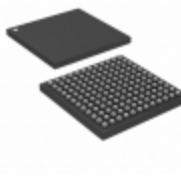



#### PCN Assembly/Origin

Additional DPS line 25/Oct/2021.pdf

#### PCN Design/Specification

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<b>STM32L562VET6TR</b> STMicroelectronics CONTROLLER / PROCESSOR	<b>STM32L4R9ZIY6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144WLQFP	<b>STM32L4R9AGI6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 169UFBGA	<b>STM32L562ZET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	<b>STM32L552CCT6</b> STMicroelectronics IC MCU 32BIT 256KB FLASH 48LQFP	<b>STM32L4R9AII6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 169UFBGA
					
<b>STM32L4R5VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32L4R5VIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP	<b>STM32L4R9ZIJ6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144UFBGA	<b>STM32L4R5ZIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	<b>STM32L552CET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 48LQFP	<b>STM32L562VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP

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### 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

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  - > 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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Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com