



Image may be representation.  
See specifications for product details.



## STM32F101RET6TR

Manufacturer Part Number	<b>STM32F101RET6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F101RET6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 64LQFP
Package	64-LQFP
Data sheet	STM32F101RET6TR.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

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### Specifications

STM32F101RET6TR Tech Specifications  
STM32F101RET6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	51
Speed	36MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	48K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-LQFP	Base Product Number	STM32F101
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F101RET6TR

Product Attribute				
Part Number	STM32F101RET6TR	STM32F101T8U6	STM32F101RG6	STM32F101RCT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
EEPROM Size	-	-	-	-
Data Converters	A/D 16x12b; D/A 2x12b	A/D 10x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
RAM Size	48K x 8	10K x 8	80K x 8	32K x 8
Series	STM32F1	STM32F1	STM32F1	STM32F1
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Program Memory Size	512KB (512K x 8)	64KB (64K x 8)	1MB (1M x 8)	256KB (256K x 8)
Oscillator Type	Internal	Internal	Internal	Internal
Package / Case	64-LQFP	36-VFQFN Exposed Pad	64-LQFP	64-LQFP
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	STM32F101	STM32F101	STM32F101	STM32F101
Peripherals	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tape & Reel (TR)	Tray	Tray	Tray
Speed	36MHz	36MHz	36MHz	36MHz
Number of I/O	51	26	51	51
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART
Supplier Device Package	64-LQFP (10x10)	36-VFQFPN (6x6)	64-LQFP (10x10)	64-LQFP (10x10)
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3

### STM32F101RET6TR Datasheet PDF

Download STM32F101RET6TR pdf datasheets and STMicroelectronics documentation for STM32F101RET6TR - STMicroelectronics.

#### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

#### PCN Design/Specification

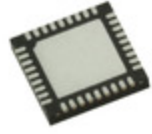



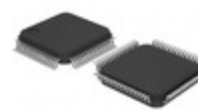

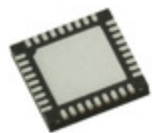

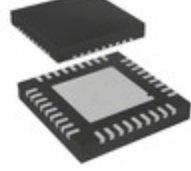


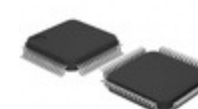

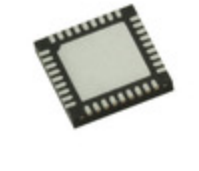




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<b>STM32F101T6U6</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 36VQFPN	<b>STM32F101RET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	<b>STM32F101TBU6</b> STMicroelectronics IC MCU 32BIT 128KB FL5H 36VQFPN	<b>STM32F101RBH6TR,32</b> STMicroelectronics	<b>STM32F101RGT6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 64LQFP	<b>STM32F101RDT6TR</b> STMicroelectronics IC MCU 32BIT 384KB FLASH 64LQFP
					
<b>STM32F101R6TR</b> STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	<b>STM32F101T4U6A</b> STMicroelectronics IC MCU 32BIT 16KB FLASH 36VQFPN	<b>STM32F101RBT6</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 64LQFP	<b>STM32F101RDT6</b> STMicroelectronics IC MCU 32BIT 384KB FLASH 64LQFP	<b>STM32F101T6U6A</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 36VQFPN	<b>STM32F101V8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 100LQFP

## 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.  
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