



Image may be representation.  
See specifications for product details.



## STM32F401RET6TR

Manufacturer Part Number	<b>STM32F401RET6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F401RET6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 64LQFP
Package	64-LQFP
Data sheet	STM32F401RET6TR.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STM32F401RET6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F401RET6TR datasheet/specifications on AllelcoElec.com.  
Request a quote for STM32F401RET6TR, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STM32F401RET6TR Tech Specifications  
STM32F401RET6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	50
Speed	84MHz	Mounting Type	Surface Mount
Series	STM32F4	EEPROM Size	-
RAM Size	96K x 8	Data Converters	A/D 16x12b
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, I²S, POR, PWM, WDT	Connectivity	I²C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG
Package / Case	64-LQFP	Base Product Number	STM32F401
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F401RET6TR

Product Attribute				
Part Number	STM32F401RET6TR	STM32F401RBT6	STM32F401VBT6	STM32F401RCT6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Number of I/O	50	50	81	50
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	I²C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I²C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I²C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I²C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Size	512KB (512K x 8)	128KB (128K x 8)	128KB (128K x 8)	256KB (256K x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Oscillator Type	Internal	Internal	Internal	Internal
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 16x12b	A/D 16x12b	A/D 16x12b	A/D 16x12b
Base Product Number	STM32F401	STM32F401	STM32F401	STM32F401
Package	Tape & Reel (TR)	Tray	Tray	Tape & Reel (TR)
Supplier Device Package	64-LQFP (10x10)	64-LQFP (10x10)	100-LQFP (14x14)	64-LQFP (10x10)
Series	STM32F4	STM32F4	STM32F4	STM32F4
EEPROM Size	-	-	-	-
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Speed	84MHz	84MHz	84MHz	84MHz
RAM Size	96K x 8	64K x 8	64K x 8	64K x 8
Package / Case	64-LQFP	64-LQFP	100-LQFP	64-LQFP

### STM32F401RET6TR Datasheet PDF

Download STM32F401RET6TR pdf datasheets and STMicroelectronics documentation for STM32F401RET6TR - STMicroelectronics.

#### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

#### PCN Assembly/Origin



## Customers Also Interested in

### Recommended Products



#### STM32F401RBT6

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 64LQFP



#### STM32F402VCT6

STMicroelectronics



#### STM32F401VBT6

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 100LQFP



#### STM32F401RCT6TR

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 64LQFP



#### STM32F401RBT6,32

STMicroelectronics



#### STM32F401VDT6

STMicroelectronics  
IC MCU 32BIT 384KB FLASH 100LQFP



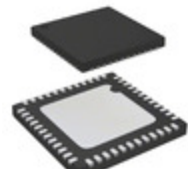
#### STM32F401VET6TR

STMicroelectronics  
IC MCU 32BIT 512KB FLASH 100LQFP



#### STM32F401RCT6

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 64LQFP



#### STM32F401CEU6TR

STMicroelectronics  
IC MCU 32BIT 512KB FLSH 48UFQFPN



#### STM32F401RDT6

STMicroelectronics  
IC MCU 32BIT 384KB FLASH 64LQFP



#### STM32F4050EY6TR

STMicroelectronics  
IC MCU 32BIT 512KB FLASH 90WLCSP



#### STM32F401VCT6

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 100LQFP



#### STM32F401VET6

STMicroelectronics  
IC MCU 32BIT 512KB FLASH 100LQFP



#### STM32F401CEY6TR

STMicroelectronics  
IC MCU 32BIT 512KB FLASH 49WLCSP



#### STM32F401RET6

STMicroelectronics  
IC MCU 32BIT 512KB FLASH 64LQFP



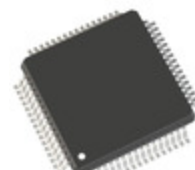
#### STM32F401VCH6

STMicroelectronics  
IC MCU 32BIT 256KB FLSH 100UFBGA



#### STM32F401CEY6LTR

STMicroelectronics



#### STM32F401RBT6TR

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 64LQFP

## 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 Alleco 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 -



Efficient Supply Management



Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



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## Certifications & Memberships



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