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See specifications for product details.



STM32F401RDT6

Manufacturer Part Number	STM32F401RDT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F401RDT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 384KB FLASH 64LQFP
Package	64-LQFP
Data sheet	STM32F401RDT6.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

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Specifications

STM32F401RDT6 Tech Specifications

STM32F401RDT6 - 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	384KB (384K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Connectivity	I ² C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG
Package / Case	64-LQFP	Base Product Number	STM32F401
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F401RDT6

Product Attribute				
Part Number	STM32F401RDT6	STM32F401CEU6	STM32F401RBT6	STM32F401VCH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tray	Tray	Tray	Tray
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Program Memory Size	384KB (384K x 8)	512KB (512K x 8)	128KB (128K x 8)	256KB (256K x 8)
Series	STM32F4	STM32F4	STM32F4	STM32F4
Data Converters	A/D 16x12b	A/D 10x12b	A/D 16x12b	A/D 16x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	64-LQFP (10x10)	48-UFQFPN (7x7)	64-LQFP (10x10)	100-UFBGA (7x7)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Package / Case	64-LQFP	48-VFQFN Exposed Pad	64-LQFP	100-UFBGA
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	96K x 8	96K x 8	64K x 8	64K x 8
Base Product Number	STM32F401	STM32F401	STM32F401	STM32F401
Connectivity	I ² C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I ² C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I ² C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG	I ² C, IrDA, LINbus, SDIO, SPI, UART/USART, USB OTG
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Number of I/O	50	36	50	81
Speed	84MHz	84MHz	84MHz	84MHz

STM32F401RDT6 Datasheet PDF

Download STM32F401RDT6 pdf datasheets and STMicroelectronics documentation for STM32F401RDT6 - STMicroelectronics.

PCN Packaging

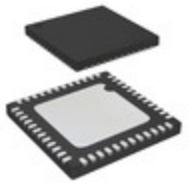
Material Barrier Bag 17/Dec/2020.pdf

PCN Assembly/Origin

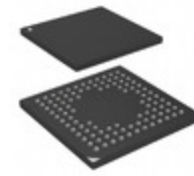


Customers Also Interested in

Recommended Products

**STM32F401CEU6**STMicroelectronics
IC MCU 32BIT 512KB FLASH
48UFQFPN

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**STM32F401RBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP**STM32F401VCH6**STMicroelectronics
IC MCU 32BIT 256KB FLASH
100UFBGA**STM32F401RCT6**STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP**STM32F401VET6**STMicroelectronics
IC MCU 32BIT 512KB FLASH
100LQFP**STM32F401RBT6TR**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP

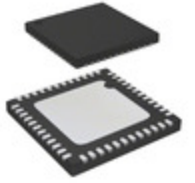
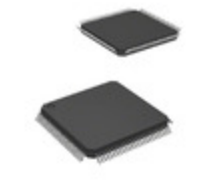
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**STM32F401RET6**STMicroelectronics
IC MCU 32BIT 512KB FLASH 64LQFP**STM32F401RCT6TR**STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP**STM32F401CEU6TR**STMicroelectronics
IC MCU 32BIT 512KB FLASH
48UFQFPN**STM32F401VBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH
100LQFP**STM32F401VCT6**STMicroelectronics
IC MCU 32BIT 256KB FLASH
100LQFP**STM32F401VDT6**STMicroelectronics
IC MCU 32BIT 384KB FLASH
100LQFP**STM32F401RBT6,32**

STMicroelectronics

**STM32F401RET6TR**STMicroelectronics
IC MCU 32BIT 512KB 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



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Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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