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See specifications for product details.



STM32F042F4P6

Manufacturer Part Number	STM32F042F4P6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F042F4P6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 16KB FLASH 20TSSOP
Package	20-TSSOP (0.173", 4.40mm Width)
Data sheet	STM32F042x4,6.pdf
RoHs Status	ROHS3 Compliant

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STM32F042F4P6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F042F4P6 datasheet/specifications on AllelcoElec.com.
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Specifications

STM32F042F4P6 Tech Specifications
STM32F042F4P6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	20-TSSOP	Number of I/O	16
Speed	48MHz	Mounting Type	Surface Mount
Series	STM32F0	EEPROM Size	-
RAM Size	6K x 8	Data Converters	A/D 12x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	16KB (16K x 8)	Core Processor	ARM® Cortex®-M0
Peripherals	DMA, I ² S, POR, PWM, WDT	Connectivity	CANbus, HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	20-TSSOP (0.173", 4.40mm Width)	Base Product Number	STM32F042
Package	Tube		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F042F4P6

Product Attribute				
Part Number	STM32F042F4P6	STM32F042C6U6	STM32F042G4U6	STM32F042K4T6
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)
Package	Tube	Tray	Tray	Tray
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
Number of I/O	16	38	24	26
Program Memory Size	16KB (16K x 8)	32KB (32K x 8)	16KB (16K x 8)	16KB (16K x 8)
Speed	48MHz	48MHz	48MHz	48MHz
Core Processor	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	6K x 8	6K x 8	6K x 8	6K x 8
Supplier Device Package	20-TSSOP	48-UFQFPN (7x7)	28-UFQFPN (4x4)	32-LQFP (7x7)
Package / Case	20-TSSOP (0.173", 4.40mm Width)	48-UFQFN Exposed Pad	28-UFQFN	32-LQFP
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Peripherals	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT
Series	STM32F0	STM32F0	STM32F0	STM32F0
Data Converters	A/D 12x12b	A/D 13x12b	A/D 13x12b	A/D 13x12b
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V
Connectivity	CANbus, HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART, USB
Base Product Number	STM32F042	STM32F042	STM32F042	STM32F042

STM32F042F4P6 Datasheet PDF

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Datasheets

[STM32F042x4,6.pdf](#)

PCN Packaging

[Moisture Barrier Bag 09/May/2016.pdf](#)

PCN Assembly/Origin

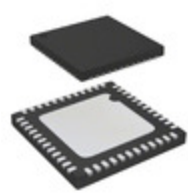
 Multi Dev 28/Sep/2022.pdf

PCN Design/Specification

 STM32F0 31/Mar/2017.pdf

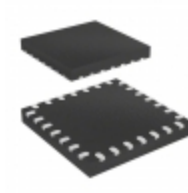
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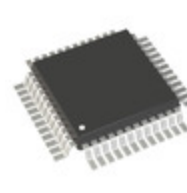
STM32F042C6U6

STMicroelectronics
IC MCU 32BIT 32KB FLASH
48UFQFPN



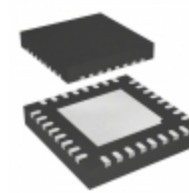
STM32F042G4U6

STMicroelectronics
IC MCU 32BIT 16KB FLASH
28UFQFPN



STM32F042K4T6

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IC MCU 32BIT 16KB FLASH 32LQFP



STM32F031K6U6

STMicroelectronics
IC MCU 32BIT 32KB FLASH
32UFQFPN



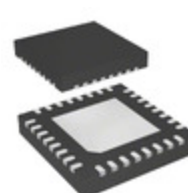
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STMicroelectronics
IC MCU 32BIT 32KB FLASH 20TSSOP



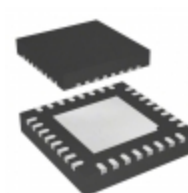
STM32F042C4T6

STMicroelectronics
IC MCU 32BIT 16KB FLASH 48LQFP



STM32F042K4U6

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IC MCU 32BIT 16KB FLASH
32UFQFPN



STM32F031K6U6TR

STMicroelectronics
IC MCU 32BIT 32KB FLASH
32UFQFPN



STM32F042C6T6

STMicroelectronics
IC MCU 32BIT 32KB FLASH 48LQFP



STM32F038C6T6

STMicroelectronics
IC MCU 32BIT 32KB FLASH 48LQFP



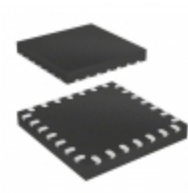
STM32F042F6P6TR

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IC MCU 32BIT 32KB FLASH 20TSSOP



STM32F042C6T6TR

STMicroelectronics
IC MCU 32BIT 32KB FLASH 48LQFP



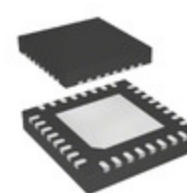
STM32F042G6U6

STMicroelectronics
IC MCU 32BIT 32KB FLASH
28UFQFPN



STM32F042F6P6

STMicroelectronics
IC MCU 32BIT 32KB FLASH 20TSSOP



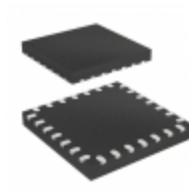
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STMicroelectronics
IC MCU 32BIT 32KB FLASH
32UFQFPN



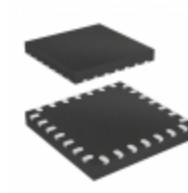
STM32F038C6T7

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IC MCU 32BIT 32KB FLASH 48LQFP



STM32F038G6U6

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IC MCU 32BIT 32KB FLASH
28UFQFPN



STM32F042G6U6TR

STMicroelectronics
IC MCU 32BIT 32KB FLASH
28UFQFPN

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.

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.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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