STM32F103T8U7TR

Manufacturer Part Number	STM32F103T8U7TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F103T8U7TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 36VFQFPN
Package	36-VFQFN Exposed Pad
Data sheet	STM32F103x(8,B) Datasheet.pdf
RoHs Status	ROHS3 Compliant

Image may be representation.
See specifications for product details.

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STM32F103T8U7TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F103T8U7TR datasheet/specifications on AllelcoElec.com.
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Specifications

STM32F103T8U7TR Tech Specifications
STM32F103T8U7TR - 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 ~ 105°C (TA)
Supplier Device Package	36-VFQFPN (6x6)	Number of I/O	26
Speed	72MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	20K x 8	Data Converters	A/D 10x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	Connectivity	CANbus, I²C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	36-VFQFN Exposed Pad	Base Product Number	STM32F103
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F103T8U7TR

Product Attribute				
Part Number	STM32F103T8U7TR	STM32F103VBT7	STM32F103T6U6A	STM32F103VBI6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Package	Tape & Reel (TR)	Tray	Tray	Tray
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	20K x 8	20K x 8	10K x 8	20K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	STM32F1	STM32F1	STM32F1	STM32F1
Data Converters	A/D 10x12b	A/D 16x12b	A/D 10x12b	A/D 16x12b
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Program Memory Size	64KB (64K x 8)	128KB (128K x 8)	32KB (32K x 8)	128KB (128K x 8)
Connectivity	CANbus, I²C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I²C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I²C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I²C, IrDA, LINbus, SPI, UART/USART, USB
Base Product Number	STM32F103	STM32F103	STM32F103	STM32F103
Number of I/O	26	80	26	80
Speed	72MHz	72MHz	72MHz	72MHz
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT
Package / Case	36-VFQFN Exposed Pad	100-LQFP	36-VFQFN Exposed Pad	100-UFBGA
Supplier Device Package	36-VFQFPN (6x6)	100-LQFP (14x14)	36-VFQFPN (6x6)	100-UFBGA (7x7)

STM32F103T8U7TR Datasheet PDF

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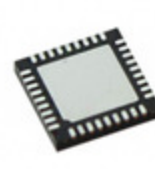### Datasheets

STM32F103x(8,B) Datasheet.pdf

PCN Packaging

PCN Assembly/Origin

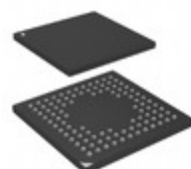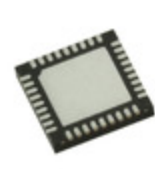## Customers Also Interested in

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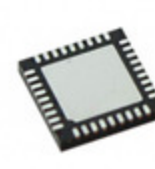STMicroelectronics
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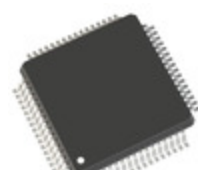IC MCU 32BIT 128KB FLSH 100UFBGA

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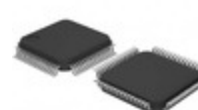STMicroelectronics
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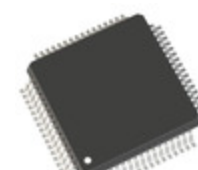STMicroelectronics
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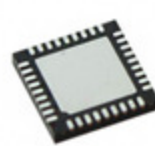**STM32F103VBH6,32**
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STM32F103RFT6TR
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STM32F103TBU6
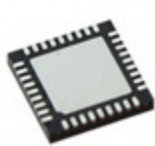STMicroelectronics
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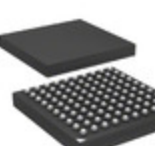IC MCU 32BIT 64KB FLASH 36VFQFPN

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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.

EAST WEST BANK
MasterCard
VISA
WESTERN UNION
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

ISO MEDICAL DEVICES ISO 13485:2016
ISO CERTIFIED COMPANY 9001:2015
ISO CERTIFIED COMPANY 14001:2015
ISO 28000:2007
IPC Member
SMTA Surface Mount Technology Association

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