



STM32G431RBT6TR

Manufacturer Part Number	STM32G431RBT6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32G431RBT6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	CONTROLLER / PROCESSOR
Package	64-LQFP
Data sheet	STM32G431RBT6TR.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32G431RBT6TR Tech Specifications
STM32G431RBT6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tape & Reel (TR)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Oscillator Type	Internal
Supplier Device Package	64-LQFP (10x10)	Operating Temperature	-40°C ~ 85°C (TA)
Speed	170MHz	Number of I/O	52
Series	STM32G4	Mounting Type	Surface Mount
RAM Size	32K x 8	EEPROM Size	-
Program Memory Type	FLASH	Data Converters	A/D 23x12b SAR; D/A 4x12b
Program Memory Size	128KB (128K x 8)	Core Size	32-Bit
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Core Processor	ARM® Cortex®-M4
Package / Case	64-LQFP	Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32G431RBT6TR

Product Attribute				
Part Number	STM32G431RBT6TR	STM32G473RCT6	STM32G431RBT6	STM32G473CET6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4F	ARM® Cortex®-M4
EEPROM Size	-	-	-	-
Package / Case	64-LQFP	64-LQFP	64-LQFP	48-LQFP
Package	Tape & Reel (TR)	Tray	Tray	Tray
Program Memory Size	128KB (128K x 8)	256KB (256K x 8)	128KB (128K x 8)	512KB (512K x 8)
Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART, USB	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART, USB
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
Supplier Device Package	64-LQFP (10x10)	64-LQFP (10x10)	64-LQFP (10x10)	48-LQFP (7x7)
Series	STM32G4	STM32G4	STM32G4	STM32G4
Number of I/O	52	52	52	38
Oscillator Type	Internal	Internal	Internal	Internal
Speed	170MHz	170MHz	170MHz	170MHz
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 23x12b SAR; D/A 4x12b	A/D 26x12b; D/A 4x12b	A/D 23x12b; D/A 4x12b	A/D 20x12b; D/A 4x12b
Core Size	32-Bit	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	32K x 8	128K x 8	32K x 8	128K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V

STM32G431RBT6TR Datasheet PDF

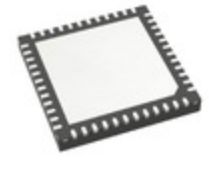
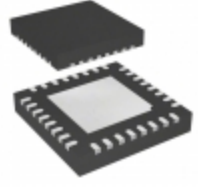
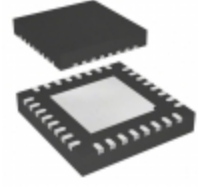
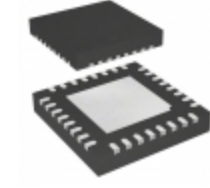
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PCN Design/Specification

Mult Dev Material Chgs 28/Feb/2023.pdf

Customers Also Interested in

Recommended Products

**STM32G473RCT6**STMicroelectronics
IC MCU 32BIT 256KB FLASH 64LQFP**STM32G431RBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP**STM32G473CET6**STMicroelectronics
IC MCU 32BIT 512KB FLASH 48LQFP**STM32G431K8U6**STMicroelectronics
CONTROLLER / PROCESSOR**STM32G473CBT6**STMicroelectronics
CONTROLLER / PROCESSOR**STM32G473CEU6**STMicroelectronics
IC MCU 32BIT 512KB FLASH 48UFQFPN**STM32G431K6U6**STMicroelectronics
IC MCU 32BIT 32KB FLASH 32UFQFPN**STM32G431RBT3TR**STMicroelectronics
CONTROLLER / PROCESSOR**STM32G431KBU6**STMicroelectronics
IC MCU 32BIT 128KB FLSH 32UFQFPN**STM32G431VBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 100LQFP**STM32G431KBU3**STMicroelectronics
IC MCU 32BIT 128KB FLSH 32UFQFPN**STM32G473VBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 100LQFP**STM32G431K8T6**STMicroelectronics
IC MCU 32BIT 64KB FLASH 32LQFP**STM32G473RBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP**STM32G431RBI6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64UFBGA**STM32G431RBT3**STMicroelectronics
IC MCU 32BIT 128KB FLASH 64LQFP**STM32G441CBT6**STMicroelectronics
IC MCU 32BIT 128KB FLASH 48LQFP**STM32G473MBT6**STMicroelectronics
CONTROLLER / PROCESSOR

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

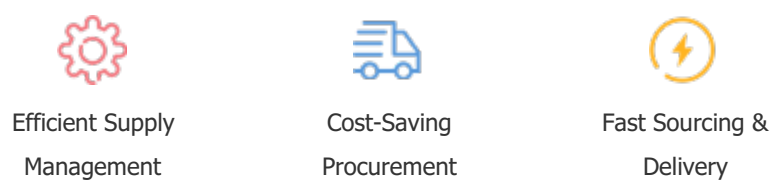
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

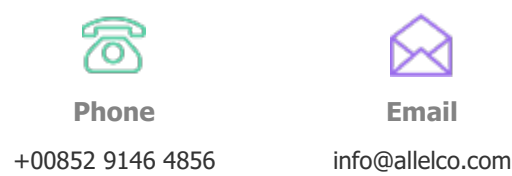
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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Contact us if you have any questions.



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