





STM32G431RB16

Manufacturer Part Number	STM32G431RB16
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32G431RB16
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 128KB FLASH 64UFBGA
Package	64-UFBGA
Data sheet	STM32G431x(6, 8, B).pdf
RoHS Status	 ROHS3 Compliant



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Specifications


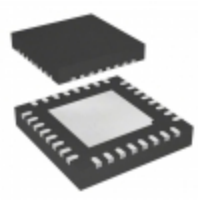


STM32G431RB16 Tech Specifications

STM32G431RB16 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-UFBGA (5x5)	Number of I/O	52
Speed	170MHz	Mounting Type	Surface Mount
Series	STM32G4	EEPROM Size	-
RAM Size	32K x 8	Data Converters	A/D 23x12b; D/A 4x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M4F
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART
Package / Case	64-UFBGA	Base Product Number	STM32G431
Package	Tray		

Parts with Similar Specifications


The three parts on the right have similar specifications to STMicroelectronics STM32G431RB16

Product Attribute	 NO PICTURE			
Part Number	STM32G431RB16	STM32G431K6U3	STM32G431RBT3TR	STM32G431RBT6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Processor	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4	ARM® Cortex®-M4
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Number of I/O	52	26	52	52
Oscillator Type	Internal	Internal	Internal	Internal
Package / Case	64-UFBGA	32-UFQFN Exposed Pad	64-LQFP	64-LQFP
Base Product Number	STM32G431	STM32G431	-	-
Supplier Device Package	64-UFBGA (5x5)	32-UFQFPN (5x5)	64-LQFP (10x10)	64-LQFP (10x10)
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
Series	STM32G4	STM32G4	STM32G4	STM32G4
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	170MHz	170MHz	170MHz	170MHz
Package	Tray	Tray	Tape & Reel (TR)	Tape & Reel (TR)
EEPROM Size	-	-	-	-
Program Memory Size	128KB (128K x 8)	32KB (32K x 8)	128KB (128K x 8)	128KB (128K x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit	32-Bit
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 23x12b; D/A 4x12b	A/D 11x12b; D/A 4x12b	A/D 23x12b SAR; D/A 4x12b	A/D 23x12b SAR; D/A 4x12b
RAM Size	32K x 8	32K x 8	32K x 8	32K x 8
Connectivity	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART	CANbus, I ² C, IrDA, LINbus, SPI, UART/USART

STM32G431RB16 Datasheet PDF


Download STM32G431RB16 pdf datasheets and STMicroelectronics documentation for STM32G431RB16 - STMicroelectronics.

Datasheets



STM32G431x(6, 8, B).pdf

PCN Packaging



Material Barrier Bag 17/Dec/2020.pdf

PCN Design/Specification

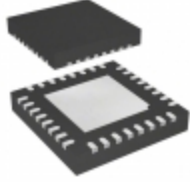


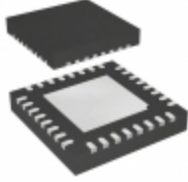

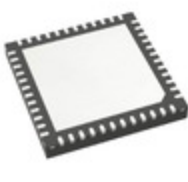




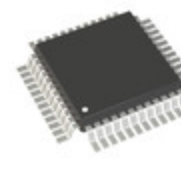




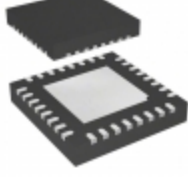

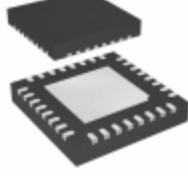
 Mult Des Die Rev 24/Nov/2020.pdf

PCN Assembly/Origin

 Mult Dev A/T Chgs 13/Dec/2021.pdf

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Recommended Products

					
STM32G431K6U3 STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN	STM32G431RBT3TR STMicroelectronics CONTROLLER / PROCESSOR	STM32G431RBT6TR STMicroelectronics CONTROLLER / PROCESSOR	STM32G431KBU6 STMicroelectronics IC MCU 32BIT 128KB FLSH 32UFQFPN	STM32G431K8U6 STMicroelectronics CONTROLLER / PROCESSOR	STM32G431C8U6 STMicroelectronics IC MCU 32BIT 128KB FLSH 48UFQFPN
					
STM32G431RBT6 STMicroelectronics IC MCU 32BIT 128KB FLASH 64LQFP	STM32G431C8U6TR STMicroelectronics IC MCU 32BIT 128KB FLASH 49WLCSF	STM32G431C8U6TR STMicroelectronics IC MCU 32BIT 128KB FLASH 49WLCSF	STM32G431RBT3 STMicroelectronics IC MCU 32BIT 128KB FLASH 64LQFP	STM32G431K8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP	STM32G473CEU6 STMicroelectronics IC MCU 32BIT 512KB FLSH 48UFQFPN
					
STM32G431VBT6 STMicroelectronics IC MCU 32BIT 128KB FLASH 100LQFP	STM32G473CBT6 STMicroelectronics CONTROLLER / PROCESSOR	STM32G473CET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 48LQFP	STM32G431KBU3 STMicroelectronics IC MCU 32BIT 128KB FLSH 32UFQFPN	STM32G441CBT6 STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP	STM32G431K6U6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN

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

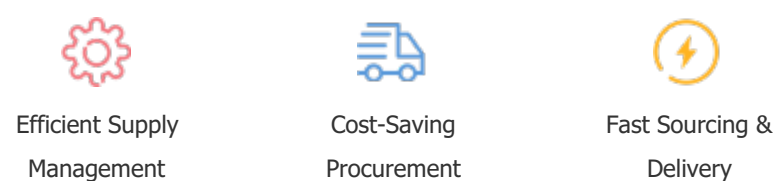
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

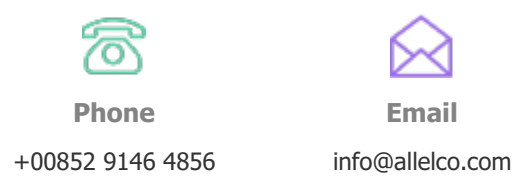
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



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