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See specifications for product details.



STM32F437ZGT6

Manufacturer Part Number	STM32F437ZGT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F437ZGT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 144LQFP
Package	144-LQFP
Data sheet	STM32F437ZGT6.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

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Specifications

STM32F437ZGT6 Tech Specifications
STM32F437ZGT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	114
Speed	180MHz	Mounting Type	Surface Mount
Series	STM32F4	EEPROM Size	-
RAM Size	256K x 8	Data Converters	A/D 24x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	STM32F437
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F437ZGT6

Product Attribute				
Part Number	STM32F437ZGT6	STM32F437IIH6TR	STM32F446MCY6TR	STM32F437IIH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Package / Case	144-LQFP	201-UFBGA	81-UFBGA, WLCSP	201-UFBGA
EEPROM Size	-	-	-	-
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V	1.8V ~ 3.6V	1.7V ~ 3.6V	1.8V ~ 3.6V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT
Series	STM32F4	STM32F4	STM32F4	STM32F4
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tray
Program Memory Size	1MB (1M x 8)	2MB (2M x 8)	256KB (256K x 8)	2MB (2M x 8)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
RAM Size	256K x 8	256K x 8	128K x 8	256K x 8
Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB OTG
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Speed	180MHz	180MHz	180MHz	180MHz
Supplier Device Package	144-LQFP (20x20)	176+25UFBGA (10x10)	-	176+25UFBGA (10x10)
Number of I/O	114	140	63	140
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	STM32F437	STM32F437	STM32F446	STM32F437
Data Converters	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 14x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b

STM32F437ZGT6 Datasheet PDF

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PCN Packaging



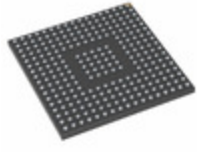

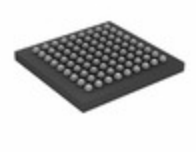
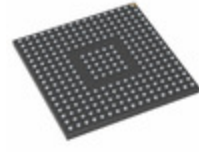
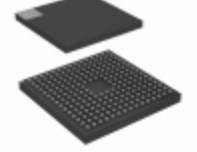






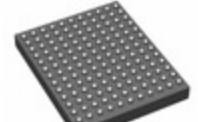
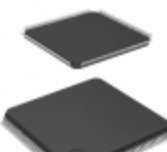




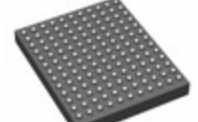
PCN Design/Specification

PCN Assembly/Origin

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 STM32F437ZIT7 STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	 STM32F439BIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 208LQFP	 STM32F439IIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	 STM32F446RCT6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64LQFP	 STM32F437IGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP	 STM32F429ZIY6TR STMicroelectronics IC MCU 32BIT 2MB FLASH 143WLCSP

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.

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Phone: +00852 9146 4856
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