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See specifications for product details.



STM32H742ZGT6

Manufacturer Part Number	STM32H742ZGT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32H742ZGT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 144LQFP
Package	144-LQFP
Data sheet	STM32H742xI/G, STM32H743xI/G.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32H742ZGT6 Tech Specifications

STM32H742ZGT6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	114
Speed	480MHz	Mounting Type	Surface Mount
Series	STM32H7	EEPROM Size	-
RAM Size	688K x 8	Data Converters	A/D 36x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	STM32H742
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H742ZGT6

Product Attribute				
Part Number	STM32H742ZGT6	STM32H733VGT6	STM32H742VGT6TR	STM32H725ZGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Program Memory Size	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
EEPROM Size	-	-	-	-
Data Converters	A/D 36x16b; D/A 2x12b	A/D 12x12/b, 18x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 12x12/b, 22x16b; D/A 2x12b
Base Product Number	STM32H742	STM32H733	STM32H742	STM32H725
Package / Case	144-LQFP	100-LQFP	100-LQFP	144-LQFP
Package	Tray	Tray	Tape & Reel (TR)	Tray
Supplier Device Package	144-LQFP (20x20)	100-LQFP (14x14)	100-LQFP (14x14)	144-LQFP (20x20)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Oscillator Type	Internal	Internal	Internal	Internal
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, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.62V ~ 3.6V
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	688K x 8	564K x 8	688K x 8	564K x 8
Number of I/O	114	80	82	97
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Series	STM32H7	STM32H7	STM32H7	STM32H7
Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	480MHz	550MHz	480MHz	550MHz

STM32H742ZGT6 Datasheet PDF

Download STM32H742ZGT6 pdf datasheets and STMicroelectronics documentation for STM32H742ZGT6 - STMicroelectronics.

Datasheets

[STM32H742xI/G, STM32H743xI/G.pdf](#)

PCN Packaging

[STM32H742ZGT6 PCN](#)








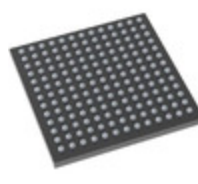
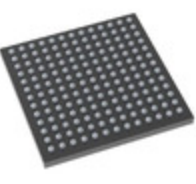
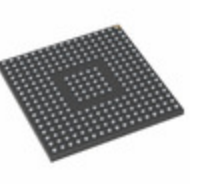

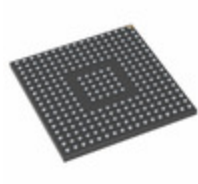
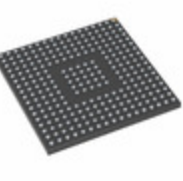




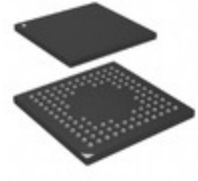
PCN Design/Specification

Mult Dev Material Chgs 28/Feb/2023.pdf

STM32Hx 28/Jun/2022.pdf

Customers Also Interested in

Recommended Products

					
STM32H733VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32H742VGT6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32H743IIT6,32 STMicroelectronics	STM32H725ZGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	STM32H743VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32H743IIT6 STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP
					
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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.



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Contact us if you have any questions.

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