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See specifications for product details.



STM32H743IIK6TR

Manufacturer Part Number	STM32H743IIK6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32H743IIK6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 176UFBGA
Package	201-UFBGA
Data sheet	STM32H742x(I, G), STM32H743x(I, G) Datasheet.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32H743IIK6TR Tech Specifications
STM32H743IIK6TR - 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	176+25UFBGA (10x10)	Number of I/O	140
Speed	480MHz	Mounting Type	Surface Mount
Series	STM32H7	EEPROM Size	-
RAM Size	1M x 8	Data Converters	A/D 36x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	2MB (2M 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	201-UFBGA	Base Product Number	STM32H743
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H743IIK6TR

Product Attribute				
Part Number	STM32H743IIK6TR	STM32H742VGT6TR	STM32H743VIH6	STM32H735IGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.71V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Program Memory Size	2MB (2M x 8)	1MB (1M x 8)	2MB (2M x 8)	1MB (1M x 8)
Oscillator Type	Internal	Internal	Internal	External, Internal
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Number of I/O	140	82	82	119
Program Memory Type	FLASH	FLASH	FLASH	FLASH
EEPROM Size	-	-	-	-
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
Data Converters	A/D 36x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 12x12b, 30x16b; D/A 2x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit
RAM Size	1M x 8	688K x 8	1M x 8	560K x 8
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Bulk
Supplier Device Package	176+25UFBGA (10x10)	100-LQFP (14x14)	100-TFBGA (8x8)	176-LQFP (24x24)
Speed	480MHz	480MHz	480MHz	550MHz
Base Product Number	STM32H743	STM32H742	STM32H743	-
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
Package / Case	201-UFBGA	100-LQFP	100-TFBGA	176-LQFP
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	STM32H7	STM32H7	STM32H7	STM32H7

STM32H743IIK6TR Datasheet PDF

Download STM32H743IIK6TR pdf datasheets and STMicroelectronics documentation for STM32H743IIK6TR - STMicroelectronics.

Datasheets

STM32H742x(I, G), STM32H743x(I, G) Datasheet.pdf

PCN Packaging

PCN Design/Specification







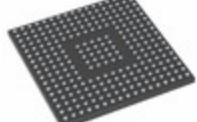




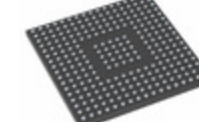
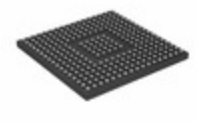
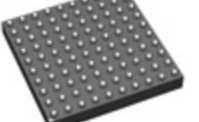




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 STM32H743IIT6,32 STMicroelectronics	 STM32H742VGT6TR STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	 STM32H743VIH6 STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	 STM32H735IGT6 STMicroelectronics CONTROLLER / PROCESSOR	 STM32H743VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	 STM32H743XIH6TR STMicroelectronics CONTROLLER / PROCESSOR
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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

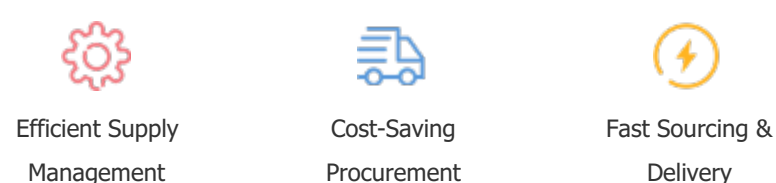
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

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