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See specifications for product details.



## STM32H745IIT6

Manufacturer Part Number	<b>STM32H745IIT6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32H745IIT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 176LQFP
Package	176-LQFP
Data sheet	<b>STM32H745x(I, G) Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32H745IIT6 Tech Specifications

STM32H745IIT6 - 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-LQFP (24x24)	Number of I/O	119
Speed	240MHz, 480MHz	Mounting Type	Surface Mount
Series	STM32H7	EEPROM Size	-
RAM Size	1M x 8	Data Converters	A/D 28x16b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Dual-Core
Program Memory Size	2MB (2M x 8)	Core Processor	ARM® Cortex®-M4/M7
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG
Package / Case	176-LQFP	Base Product Number	STM32H745
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H745IIT6

Product Attribute				
Part Number	STM32H745IIT6	STM32H743VIT6	STM32H745ZIT6	STM32H745ZGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
RAM Size	1M x 8	1M x 8	1M x 8	1M x 8
Core Processor	ARM® Cortex®-M4/M7	ARM® Cortex®-M7	ARM® Cortex®-M4/M7	ARM® Cortex®-M4/M7
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
EEPROM Size	-	-	-	-
Series	STM32H7	STM32H7	STM32H7	STM32H7
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.71V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Base Product Number	STM32H745	STM32H743	STM32H745	STM32H745
Number of I/O	119	82	97	97
Package / Case	176-LQFP	100-LQFP	144-LQFP	144-LQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	2MB (2M x 8)	1MB (1M x 8)
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT
Core Size	32-Bit Dual-Core	32-Bit Single-Core	32-Bit Dual-Core	32-Bit Dual-Core
Supplier Device Package	176-LQFP (24x24)	100-LQFP (14x14)	144-LQFP (20x20)	144-LQFP (20x20)
Speed	240MHz, 480MHz	480MHz	240MHz, 480MHz	240MHz, 480MHz
Package	Tray	Tray	Tray	Tray
Data Converters	A/D 28x16b; D/A 2x12b	A/D 36x16b; D/A 2x12b	A/D 23x16b; D/A 2x12b	A/D 23x16b; D/A 2x12b
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG

### STM32H745IIT6 Datasheet PDF

Download STM32H745IIT6 pdf datasheets and STMicroelectronics documentation for STM32H745IIT6 - STMicroelectronics.

#### Datasheets

STM32H745x(I, G) Datasheet.pdf

#### PCN Packaging







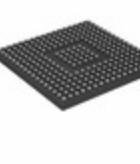
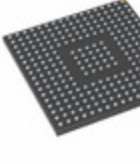



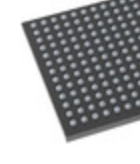

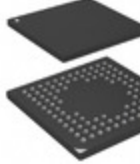
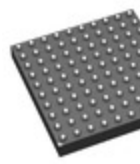


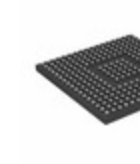
PCN Packaging

PCN Assembly/Origin

PCN Design/Specification

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Recommended Products

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 <b>STM32H747XIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH TFBGA	 <b>STM32H750IBK6</b> STMicroelectronics IC MCU 32BIT 128KB FLSH 176UFBGA	 <b>STM32H750IBT6</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 176LQFP	 <b>STM32H743XIH6TR</b> STMicroelectronics CONTROLLER / PROCESSOR	 <b>STM32H750VBT6</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 100LQFP	 <b>STM32H747AII6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 169UFBGA
 <b>STM32H745ZIT3</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	 <b>STM32H743VIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	 <b>STM32H743VIH6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	 <b>STM32H750VBT6,32</b> STMicroelectronics	 <b>STM32H743ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	 <b>STM32H743XIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH TFBGA

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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