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See specifications for product details.



## STM32H753ZIT6

Manufacturer Part Number	<b>STM32H753ZIT6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32H753ZIT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 144LQFP
Package	144-LQFP
Data sheet	<b>STM32H753xI Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32H753ZIT6 Tech Specifications

STM32H753ZIT6 - 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	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 <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	144-LQFP	Base Product Number	STM32H753
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32H753ZIT6

Product Attribute				
Part Number	STM32H753ZIT6	STM32H7B0VBT6	STM32H7A3ZIT6	STM32H755XIH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Program Memory Size	2MB (2M x 8)	128KB (128K x 8)	2MB (2M x 8)	2MB (2M x 8)
Series	STM32H7	STM32H7	STM32H7	STM32H7
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	-	-	-	-
Speed	480MHz	280MHz	280MHz	240MHz, 480MHz
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 36x16b; D/A 2x12b	A/D 16x16b; D/A 3x12b	A/D 20x16b; D/A 3x12b	A/D 36x16b; D/A 2x12b
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Dual-Core
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M4/M7
Supplier Device Package	144-LQFP (20x20)	100-LQFP (14x14)	144-LQFP (20x20)	240+25-TFBGA (14x14)
Package / Case	144-LQFP	100-LQFP	144-LQFP	265-TFBGA
Package	Tray	Tray	Tray	Tray
RAM Size	1M x 8	1.4M x 8	1.4M x 8	1M x 8
Base Product Number	STM32H753	STM32H7B0	STM32H7A3	STM32H755
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
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	Camera, CANbus, EBI/EMI, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, PSSI, SAI, SPDIF, SPI, SWPMI, UART/USART, USB OTG	CANbus, EBI/EMI, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, MDIO, MMC/SD/SDIO, 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
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
Number of I/O	114	80	97	168
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

### STM32H753ZIT6 Datasheet PDF

Download STM32H753ZIT6 pdf datasheets and STMicroelectronics documentation for STM32H753ZIT6 - STMicroelectronics.

#### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

#### PCN Design/Specification

PCN Assembly/Origin

Mult Dev Assembly Add 8/Mar/2019.pdf

Errata



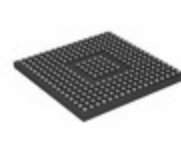


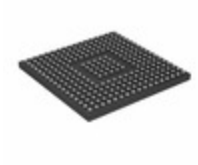
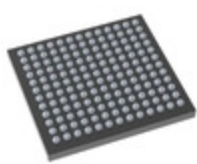




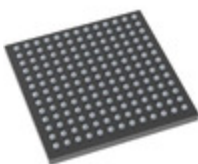


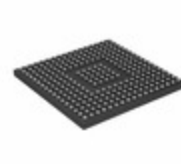
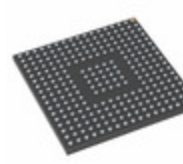


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HTML Datasheet

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 <p><b>STM32H757Z1Y6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 156WLCSP</p>	 <p><b>STM32H755IIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP</p>	 <p><b>STM32H753IIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP</p>	 <p><b>STM32H7A3RIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 64LQFP</p>	 <p><b>STM32H7A3VGT6</b> STMicroelectronics CONTROLLER / PROCESSOR</p>	 <p><b>STM32H753AIIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 169UFBGA</p>
 <p><b>STM32H7A3VIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP</p>	 <p><b>STM32H750ZBT6</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 144LQFP</p>	 <p><b>STM32H753XIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH TFBGA</p>	 <p><b>STM32H753IIK6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176UFBGA</p>	 <p><b>STM32H750VBT6TR</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 100LQFP</p>	 <p><b>STM32H750IBT6</b> STMicroelectronics IC MCU 32BIT 128KB FLASH 176LQFP</p>

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Delivery Cost

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  - > 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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