



Image may be representation.  
See specifications for product details.



## STM32F750Z8T6

Manufacturer Part Number	<b>STM32F750Z8T6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F750Z8T6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 144LQFP
Package	144-LQFP
Data sheet	<a href="#">STM32F7 &amp; STM32H7 Programming Manual.pdf</a> <a href="#">STM32F750x8 Datasheet.pdf</a> <a href="#">STM32F75zzzz &amp; STM32F74zzzz Ref. Manual.pdf</a>
RoHS Status	ROHS3 Compliant

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## Specifications

STM32F750Z8T6 Tech Specifications

STM32F750Z8T6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	114
Speed	216MHz	Mounting Type	Surface Mount
Series	STM32F7	EEPROM Size	-
RAM Size	320K x 8	Data Converters	A/D 24x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Connectivity	CANbus, Ethernet, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, SAI, SPDIFRX, SPI, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	STM32F750
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F750Z8T6

Product Attribute				
Part Number	STM32F750Z8T6	STM32F746VET6	STM32F765NGH6	STM32F746NGH6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	216MHz	216MHz	216MHz	216MHz
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Base Product Number	STM32F750	STM32F746	STM32F765	STM32F746
Series	STM32F7	STM32F7	STM32F7	STM32F7
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	512KB (512K x 8)	1MB (1M x 8)	1MB (1M x 8)
Connectivity	CANbus, Ethernet, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, SAI, SPDIFRX, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG
RAM Size	320K x 8	320K x 8	512K x 8	320K x 8
Peripherals	Brown-out Detect/Reset, DMA, 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, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT
Oscillator Type	Internal	Internal	Internal	Internal
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Supplier Device Package	144-LQFP (20x20)	100-LQFP (14x14)	216-TFBGA (13x13)	216-TFBGA (13x13)
Number of I/O	114	82	168	168
EEPROM Size	-	-	-	-
Package / Case	144-LQFP	100-LQFP	216-TFBGA	216-TFBGA
Data Converters	A/D 24x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
Package	Tray	Tray	Tray	Tape & Reel (TR)

## STM32F750Z8T6 Datasheet PDF

Download STM32F750Z8T6 pdf datasheets and STMicroelectronics documentation for STM32F750Z8T6 - STMicroelectronics.

### Datasheets




STM32F750x8 Datasheet.pdf




STM32F75zzzz & STM32F74zzzz Ref. Manual.pdf


## PCN Packaging

 Material Barrier Bag 17/Dec/2020.pdf


## HTML Datasheet

 STM32F7 & STM32H7 Programming Manual.pdf

## PCN Assembly/Origin


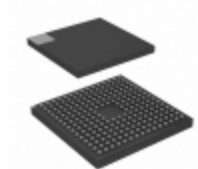
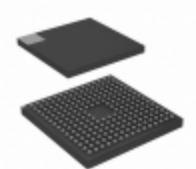




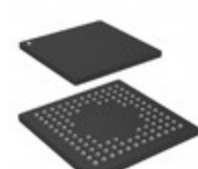

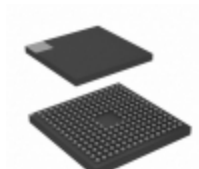

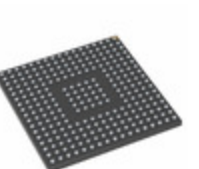


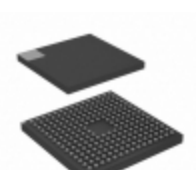

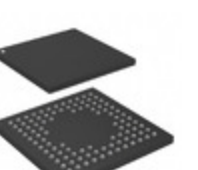

 Mult Dev Assembly Source Add 5/Mar/2019.pdf

## Errata

 STM32F75zzzz & STM32F74zzzz Errata.pdf

## Customers Also Interested in

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<b>STM32F746VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	<b>STM32F765NGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 216TFBGA	<b>STM32F746NGH6TR</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 216TFBGA	<b>STM32F765IIT7</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	<b>STM32F765VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F746VGT7</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP
					
<b>STM32F756VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F765VIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	<b>STM32F746VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F750N8H6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 216TFBGA	<b>STM32F746ZET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	<b>STM32F765IGK6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176UFBGA
					
<b>STM32F746ZGT7</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	<b>STM32F756ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	<b>STM32F765NIH6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F750V8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 100LQFP	<b>STM32F765VGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100TFBGA	<b>STM32F746ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP

## 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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Contact us if you have any questions.

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