



# STM32F746VET6

Manufacturer Part Number	<b>STM32F746VET6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F746VET6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<b>STM32F745xx, STM32F746xx.pdf</b>
RoHs Status	ROHS3 Compliant

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## Specifications

STM32F746VET6 Tech Specifications  
STM32F746VET6 - 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	100-LQFP (14x14)	Number of I/O	82
Speed	216MHz	Mounting Type	Surface Mount
Series	STM32F7	EEPROM Size	-
RAM Size	320K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K 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, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG
Package / Case	100-LQFP	Base Product Number	STM32F746
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F746VET6

Product Attribute				
Part Number	STM32F746VET6	STM32F750V8T6	STM32F746ZGT7	STM32F746VGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Base Product Number	STM32F746	STM32F750	STM32F746	STM32F746
Speed	216MHz	216MHz	216MHz	216MHz
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)
Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG	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, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	100-LQFP	100-LQFP	144-LQFP	100-LQFP
Package	Tray	Tray	Tray	Tray
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Program Memory Size	512KB (512K x 8)	64KB (64K x 8)	1MB (1M x 8)	1MB (1M x 8)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	-	-	-	-
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT	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, LCD, POR, PWM, WDT
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Oscillator Type	Internal	Internal	Internal	Internal
Series	STM32F7	STM32F7	STM32F7	STM32F7
RAM Size	320K x 8	320K x 8	320K x 8	320K x 8
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	144-LQFP (20x20)	100-LQFP (14x14)
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
Number of I/O	82	82	114	82

## STM32F746VET6 Datasheet PDF

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### PCN Packaging







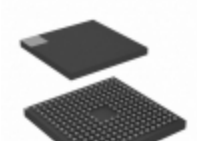
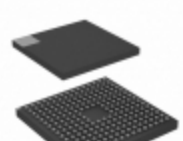


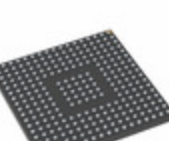

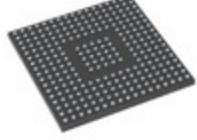
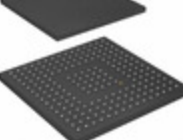

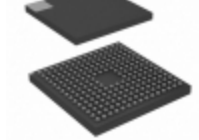
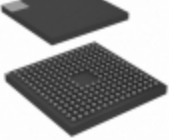

2.73KHz.pdf

### PCN Assembly/Origin

HTML Datasheet

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- (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




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