



# STM32G491VET6

Manufacturer Part Number	<b>STM32G491VET6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32G491VET6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<b>STM32G491xC STM32G491xE.pdf</b>
RoHs Status	ROHS3 Compliant

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## Specifications

STM32G491VET6 Tech Specifications  
STM32G491VET6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	86
Speed	170MHz	Mounting Type	Surface Mount
Series	STM32G4	EEPROM Size	-
RAM Size	112K x 8	Data Converters	A/D 36x12b; D/A 4x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4F
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, IRTIM, LINbus, SAI, SPI, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	STM32G491
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32G491VET6

Product Attribute	NO PICTURE	life.augmented	life.augmented	life.augmented
Part Number	STM32G491VET6	STM32G474VET6TR	STM32G483VET6	STM32G484VET6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package / Case	100-LQFP	100-LQFP	100-LQFP	100-LQFP
EEPROM Size	-	-	-	-
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Data Converters	A/D 36x12b; D/A 4x12b	A/D 42x12b; D/A 7x12b	A/D 42x12b; D/A 4x12b	A/D 42x12b; D/A 4x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	CANbus, I <sup>2</sup> C, IrDA, IRTIM, LINbus, SAI, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, QSPI, SPI, UART/USART	CANbus, I <sup>2</sup> C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART, USB
Core Processor	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4	ARM® Cortex®-M4
Series	STM32G4	STM32G4	STM32G4	STM32G4
RAM Size	112K x 8	128K x 8	128K x 8	128K x 8
Base Product Number	STM32G491	STM32G474	STM32G483	STM32G484
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Speed	170MHz	170MHz	170MHz	170MHz
Package	Tray	Tape & Reel (TR)	Tray	Tray
Number of I/O	86	86	86	86
Oscillator Type	Internal	Internal	Internal	Internal
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, 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, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	100-LQFP (14x14)	100-LQFP (14x14)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

## STM32G491VET6 Datasheet PDF

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### Datasheets












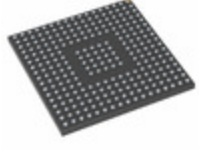


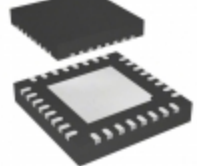



STM32G491xC STM32G491xE.pdf

### PCN Design/Specification

Mult Dev Material Chgs 28/Feb/2023.pdf

## Customers Also Interested in

### Recommended Products

 <b>STM32G474VET6TR</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 <b>STM32G483VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 <b>STM32G484VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 <b>STM32H725REV6</b> STMicroelectronics CONTROLLER / PROCESSOR	 <b>STM32H723ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	 <b>STM32G474VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP
 <b>STM32H723VGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100TFBGA	 <b>STM32H723ZET6</b> STMicroelectronics CONTROLLER / PROCESSOR	 <b>STM32G484CET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 48LQFP	 <b>STM32H725AGI6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 169UFBGA	 <b>STM32G491RET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 64LQFP	 <b>STM32H725IGK6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176UFBGA
 <b>STM32H723VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	 <b>STM32G491VCT6</b> STMicroelectronics CONTROLLER / PROCESSOR	 <b>STM32G491KEU6</b> STMicroelectronics IC MCU 32BIT 512KB FLSH 32UFQFPN	 <b>STM32H723VET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 100LQFP	 <b>STM32G491CET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 48LQFP	 <b>STM32G491MET6</b> STMicroelectronics IC MCU 32BIT 512KB FLASH 80LQFP

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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.  
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