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See specifications for product details.



STM32F746IGT6

Manufacturer Part Number	STM32F746IGT6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F746IGT6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 176LQFP
Package	176-LQFP
Data sheet	STM32F745xx, STM32F746xx.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32F746IGT6 Tech Specifications
STM32F746IGT6 - 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	176-LQFP (24x24)	Number of I/O	140
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	1MB (1M x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG
Package / Case	176-LQFP	Base Product Number	STM32F746
Package	Tray		

Parts with Similar Specifications

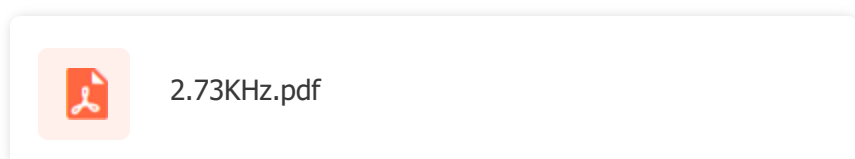
The three parts on the right have similar specifications to STMicroelectronics STM32F746IGT6

Product Attribute				
Part Number	STM32F746IGT6	STM32F746NGH6	STM32F746VGT7	STM32F746ZGT7
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Base Product Number	STM32F746	STM32F746	STM32F746	STM32F746
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Package / Case	176-LQFP	216-TFBGA	100-LQFP	144-LQFP
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Number of I/O	140	168	82	114
Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, LINbus, SAI, SD, SPDIF-Rx, SPI, UART/USART, USB OTG
Package	Tray	Tray	Tray	Tray
RAM Size	320K x 8	320K x 8	320K x 8	320K x 8
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	-	-	-	-
Program Memory Size	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)
Series	STM32F7	STM32F7	STM32F7	STM32F7
Supplier Device Package	176-LQFP (24x24)	216-TFBGA (13x13)	100-LQFP (14x14)	144-LQFP (20x20)
Speed	216MHz	216MHz	216MHz	216MHz
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Peripherals	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, LCD, POR, PWM, WDT

STM32F746IGT6 Datasheet PDF

Download STM32F746IGT6 pdf datasheets and STMicroelectronics documentation for STM32F746IGT6 - STMicroelectronics.

PCN Packaging



PCN Assembly/Origin

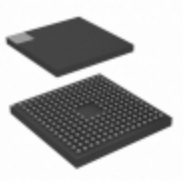




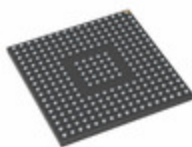



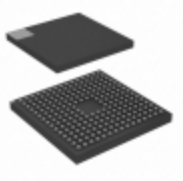

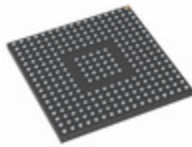
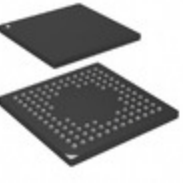



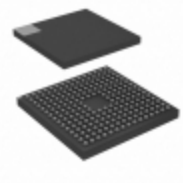
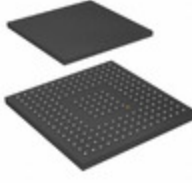
2.73KHz.pdf

HTML Datasheet

STM32F745xx, STM32F746xx.pdf

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STM32F745VGH6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100TFBGA	STM32F746VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32F745VGT6 STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	STM32F746ZET6 STMicroelectronics IC MCU 32BIT 512KB FLASH 144LQFP	STM32F746NEH6 STMicroelectronics IC MCU 32BIT 512KB FLSH 216TFBGA	STM32F746IEK6 STMicroelectronics IC MCU 32BIT 512KB FLSH 176UFBGA

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.

Payment Support



The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -

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Contact us if you have any questions.

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