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See specifications for product details.



## STM32F767IGK6

Manufacturer Part Number	<b>STM32F767IGK6</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F767IGK6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 1MB FLASH 176UFBGA
Package	201-UFBGA
Data sheet	<b>STM32F765xx,767xx, 768Ax, 769xx.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32F767IGK6 Tech Specifications  
STM32F767IGK6 - 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+25UFBGA (10x10)	Number of I/O	140
Speed	216MHz	Mounting Type	Surface Mount
Series	STM32F7	EEPROM Size	-
RAM Size	512K 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 <sup>2</sup> S, LCD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, UART/USART, USB OTG
Package / Case	201-UFBGA	Base Product Number	STM32F767
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F767IGK6

Product Attribute				
Part Number	STM32F767IGK6	STM32F767NGH6	STM32F767NIH6	STM32F767BGT6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
EEPROM Size	-	-	-	-
Number of I/O	140	168	168	159
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	1MB (1M x 8)	2MB (2M x 8)	1MB (1M x 8)
Series	STM32F7	STM32F7	STM32F7	STM32F7
Supplier Device Package	176+25UFBGA (10x10)	216-TFBGA (13x13)	216-TFBGA (13x13)	208-LQFP (28x28)
Connectivity	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, MMC/SD/SDIO, QSPI, SAI, SPDIF, 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, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, UART/USART, USB OTG
Data Converters	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
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
Package	Tray	Tray	Tray	Tray
Speed	216MHz	216MHz	216MHz	216MHz
Package / Case	201-UFBGA	216-TFBGA	216-TFBGA	208-LQFP
RAM Size	512K x 8	512K x 8	512K x 8	512K x 8
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)
Base Product Number	STM32F767	STM32F767	STM32F767	STM32F767

### STM32F767IGK6 Datasheet PDF

Download STM32F767IGK6 pdf datasheets and STMicroelectronics documentation for STM32F767IGK6 - STMicroelectronics.

#### PCN Packaging

2.73KHz.pdf

#### PCN Assembly/Origin

2.73KHz.pdf

## HTML Datasheet

STM32F765xx,767xx, 768Ax, 769xx.pdf

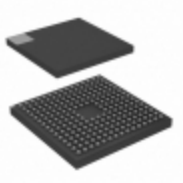
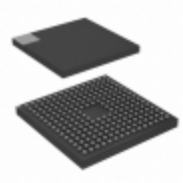


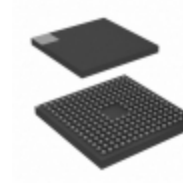



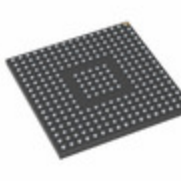

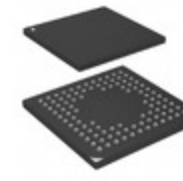




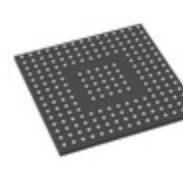


## PCN Design/Specification

STM32F7x 03/Apr/2017.pdf

STM32F7x 17/Nov/2016.pdf

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### Recommended Products

					
<b>STM32F767NGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 216TFBGA	<b>STM32F767NIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F767BGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 208LQFP	<b>STM32F767ZIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	<b>STM32F765NIH6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F767IGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP
					
<b>STM32F765VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F765ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	<b>STM32F767IIK6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176UFBGA	<b>STM32F767VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F765VIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	<b>STM32F765VIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP
					
<b>STM32F767VIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP	<b>STM32F765ZIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	<b>STM32F767IIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	<b>STM32F769AIY6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 180WLCSP	<b>STM32F767BIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 208LQFP	<b>STM32F765ZGT7</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.

### Payment Support

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



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Contact us if you have any questions.

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