

Image may be representation.  
See specifications for product details.



## STM32F769AIY6TR

Manufacturer Part Number **STM32F769AIY6TR**

Manufacturer **STMicroelectronics**

Allelco Part Number **32D-STM32F769AIY6TR**

ECAD Model PCB Symbol, Footprint & 3D Mode

Parts Description **IC MCU 32BIT 2MB FLASH 180WLCSP**

Package **180-UFBGA, WLCSP**

Data sheet **STM32F765xx,767xx, 768Ax, 769xx.pdf**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

STM32F769AIY6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F769AIY6TR datasheet/specifications on AllelcoElec.com.

Request a quote for STM32F769AIY6TR, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

STM32F769AIY6TR Tech Specifications

STM32F769AIY6TR - 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	180-WLCSP (5.5x6)	Number of I/O	129
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	2MB (2M 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, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SAI, SPDIF, SPI, UART/USART, USB OTG
Package / Case	180-UFBGA, WLCSP	Base Product Number	STM32F769
Package	Tape & Reel (TR)		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F769AIY6TR

Product Attribute				
Part Number	STM32F769AIY6TR	<b>STM32F767IIT6</b>	<b>STM32F769BGT6</b>	<b>STM32F777NIH6</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
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
Supplier Device Package	180-WLCSP (5.5x6)	176-LQFP (24x24)	208-LQFP (28x28)	216-TFBGA (13x13)
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)
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Speed	216MHz	216MHz	216MHz	216MHz
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	STM32F7	STM32F7	STM32F7	STM32F7
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
EEPROM Size	-	-	-	-
Voltage - Supply (Vcc/Vdd)	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Package	Tape & Reel (TR)	Tray	Tray	Tray
Package / Case	180-UFBGA, WLCSP	176-LQFP	208-LQFP	216-TFBGA
Number of I/O	129	140	159	159
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	CANbus, EBI/EMI, 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
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	1MB (1M x 8)	2MB (2M x 8)
Base Product Number	STM32F769	STM32F767	STM32F769	STM32F777
RAM Size	512K x 8	512K x 8	512K x 8	512K x 8
Oscillator Type	Internal	Internal	Internal	Internal

## STM32F769AIY6TR Datasheet PDF

Download STM32F769AIY6TR pdf datasheets and STMicroelectronics documentation for STM32F769AIY6TR - STMicroelectronics.

### PCN Assembly/Origin



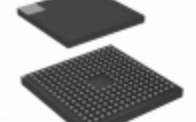




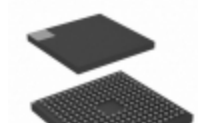


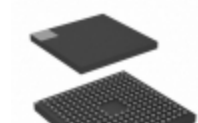

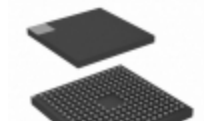

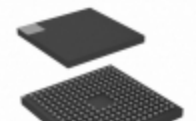
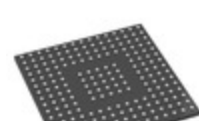
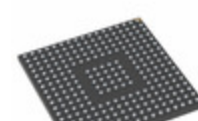
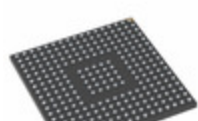


STM32F4/STM32F7 10/Feb/2019.pdf

### HTML Datasheet

## Customers Also Interested in

### Recommended Products

					
<b>STM32F767IIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	<b>STM32F769BGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 208LQFP	<b>STM32F777NIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F767ZGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 144LQFP	<b>STM32F767IGK6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176UFBGA	<b>STM32F767VIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100LQFP
					
<b>STM32F767ZIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 144LQFP	<b>STM32F777NIH6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F777VIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 100TFBGA	<b>STM32F769BIT6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 208LQFP	<b>STM32F767NIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F767IGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 176LQFP
					
<b>STM32F767NGH6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 216TFBGA	<b>STM32F767VGT6</b> STMicroelectronics IC MCU 32BIT 1MB FLASH 100LQFP	<b>STM32F769NIH6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 216TFBGA	<b>STM32F779AIY6TR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 180WLCSP	<b>STM32F767IIK6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176UFBGA	<b>STM32F777IIK6</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 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 -

		
Efficient Supply Management	Cost-Saving Procurement	Fast Sourcing & Delivery

Contact us if you have any questions.

	
Phone +00852 9146 4856	Email info@allelco.com

### Certifications & Memberships



[View More](#)

### Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com