

Image may be representation.  
See specifications for product details.



## STSPIN32F0

Manufacturer Part Number	<b>STSPIN32F0</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STSPIN32F0
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC BLDC CTRL STM32 48VFQFPN
Package	48-VFQFN Exposed Pad
Data sheet	<b>Motor Control Reference Guide.pdf</b> <b>STSPIN32F0.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STSPIN32F0 - STMicroelectronics.New Original in Stock. Download Linear Technology STSPIN32F0 datasheet/specifications on AllelcoElec.com.  
Request a quote for STSPIN32F0, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STSPIN32F0 Tech Specifications

STSPIN32F0 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-40°C ~ 125°C (TJ)
Voltage - Supply	8V ~ 45V	Number of I/O	16
Supplier Device Package	48-VFQFPN (7x7)	Mounting Type	Surface Mount
Series	STSPIN32F0	Interface	I <sup>2</sup> C, SPI, UART/USART
RAM Size	4K x 8	Core Processor	ARM® Cortex®-M0
Program Memory Type	FLASH (32kB)	Controller Series	STM32F031x6x7
Package / Case	48-VFQFN Exposed Pad	Base Product Number	STSPIN32
Package	Tray	Applications	BLDC Controller

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STSPIN32F0

Product Attribute				
Part Number	STSPIN32F0	STSPIN32F0BTR	STSPIN32F0ATR	STSPIN32F0A
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Voltage - Supply	8V ~ 45V	6.7V ~ 45V	6.7V ~ 45V	6.7V ~ 45V
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)
Supplier Device Package	48-VFQFPN (7x7)	48-VFQFPN (7x7)	48-VFQFPN (7x7)	48-VFQFPN (7x7)
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tray
Package / Case	48-VFQFN Exposed Pad	48-VFQFN Exposed Pad	48-VFQFN Exposed Pad	48-VFQFN Exposed Pad
Series	STSPIN32F0	STSPIN32F0	STSPIN32F0	STSPIN32F0
Applications	BLDC Controller	BLDC Controller	BLDC Controller	BLDC Controller
RAM Size	4K x 8	4K x 8	4K x 8	4K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Interface	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART
Program Memory Type	FLASH (32kB)	FLASH (32kB)	FLASH (32kB)	FLASH (32kB)
Base Product Number	STSPIN32	STSPIN32	STSPIN32	STSPIN32
Core Processor	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0
Number of I/O	16	20	16	16
Controller Series	STM32F031x6x7	STM32F031x6x7	STM32F031x6x7	STM32F031x6x7

### STSPIN32F0 Datasheet PDF

Download STSPIN32F0 pdf datasheets and STMicroelectronics documentation for STSPIN32F0 - STMicroelectronics.

#### PCN Packaging

2.73KHz.pdf

#### HTML Datasheet

Motor Control Reference Guide.pdf

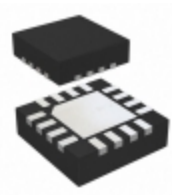
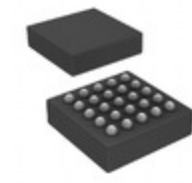
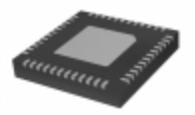
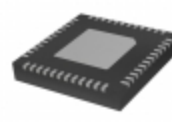
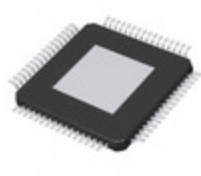
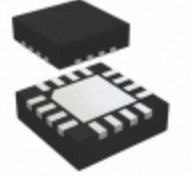
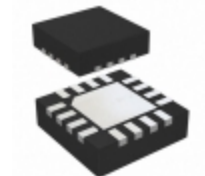
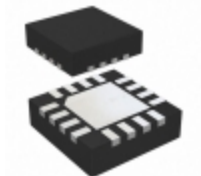
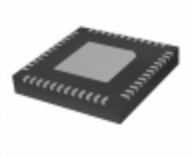
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#### PCN Assembly/Origin

STSPIN32F0 10/May/2019.pdf

### Customers Also Interested in

#### Recommended Products

**STSPIN250**STMicroelectronics  
IC MOTOR DRIVER 0V-5V 16VQFPN**STSJ60NH3LL**STMicroelectronics  
MOSFET N-CH 30V 60A 8SOIC**STSPIN32F0BTR**STMicroelectronics  
ADVANCED SINGLE SHUNT BLDC  
CONTR**STSPIN32F0ATR**STMicroelectronics  
MOSFET N-CH 30V 50A 8SOIC**STSMIA832TBR**STMicroelectronics  
IC RECEIVER 0/1 25TFBGA**STSPIN32F0ATR**STMicroelectronics  
IC BLDC CTRL STM32 48VQFPN**STSPIN32F0A**STMicroelectronics  
IND. & POWER CONV.**STSPIN32F0A**STMicroelectronics  
MOSFET N-CH 30V 100A 8SOIC**STSPIN32F0251TR**STMicroelectronics  
250 V THREE-PHASE CONTROLLER  
WIT**STSPIN32F0601QTR**STMicroelectronics  
DISCRETE**STSPIN32F0602**STMicroelectronics  
600V THREE-PHASE CONTROLLER  
WITH**STSPIN233**STMicroelectronics  
IC HALF BRIDGE DRV 1.3A  
16VQFPN**STSPIN32G4**STMicroelectronics  
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DRIVER**STSPIN240**STMicroelectronics  
IC HALF BRIDGE DRV 1.3A  
16VQFPN**STSPIN32G4TR**STMicroelectronics  
DISCRETE**STSPIN32F0TR**STMicroelectronics  
IND & POWER CONV**STSPIN32F0B**STMicroelectronics  
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CONTR

## 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,  
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