

Image may be representation.  
See specifications for product details.



## 5CEFA9F31I7N

Manufacturer Part Number	<b>5CEFA9F31I7N</b>
Manufacturer	<b>Intel</b>
Allelco Part Number	32D-5CEFA9F31I7N
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC FPGA 480 I/O 896FBGA
Package	896-BGA
Data sheet	<a href="#">Virtual JTAG Megafuntion Guide.pdf</a> <a href="#">Cyclone V Device Handbook.pdf</a> <a href="#">Cyclone V Device Overview.pdf</a>
RoHs Status	RoHS Compliant

**Get a Quote**

5CEFA9F31I7N - Intel.New Original in Stock. Download Linear Technology 5CEFA9F31I7N datasheet/specifications on AllelcoElec.com.  
Request a quote for 5CEFA9F31I7N, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

5CEFA9F31I7N Tech Specifications  
5CEFA9F31I7N - Intel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Intel	Operating Temperature	-40°C ~ 100°C (TJ)
Voltage - Supply	1.07V ~ 1.13V	Number of Logic Elements/Cells	301000
Total RAM Bits	14251008	Number of LABs/CLBs	113560
Supplier Device Package	896-FBGA (31x31)	Number of I/O	480
Series	Cyclone® V E	Mounting Type	Surface Mount
Package / Case	896-BGA	Base Product Number	5CEFA9
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Intel 5CEFA9F31I7N

Product Attribute				
Part Number	5CEFA9F31I7N	5CEFA7F31I7N	5CEFA7U19C8N	5CEFA9F23C8N
Manufacturer	Intel	Intel	Intel	Intel
Package / Case	896-BGA	896-BGA	484-FBGA	484-BGA
Package	Tray	Tray	Tray	Tray
Number of I/O	480	480	240	224
Operating Temperature	-40°C ~ 100°C (TJ)	-40°C ~ 100°C (TJ)	0°C ~ 85°C (TJ)	0°C ~ 85°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	5CEFA9	5CEFA7	5CEFA7	5CEFA9
Number of LABs/CLBs	113560	56480	56480	113560
Supplier Device Package	896-FBGA (31x31)	896-FBGA (31x31)	484-UBGA (19x19)	484-FBGA (23x23)
Voltage - Supply	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V
Number of Logic Elements/Cells	301000	149500	149500	301000
Series	Cyclone® V E	Cyclone® V E	Cyclone® V E	Cyclone® V E
Total RAM Bits	14251008	7880704	7880704	14251008

### 5CEFA9F31I7N Datasheet PDF

Download 5CEFA9F31I7N pdf datasheets and Intel documentation for 5CEFA9F31I7N - Intel.

#### Datasheets

- [Virtual JTAG Megafuntion Guide.pdf](#)
- [Cyclone V Device Handbook.pdf](#)
- [Cyclone V Device Overview.pdf](#)

#### PCN Packaging

- [Mult Dev Label CHG 24/Jan/2020.pdf](#)
- [Mult Dev Label Chgs 24/Feb/2020.pdf](#)

#### PCN Design/Specification

- [Quartus SW/Web Chgs 23/Sep/2021.pdf](#)
- [Mult Dev Software Chgs 3/Jun/2021.pdf](#)

#### Errata

- [2.73KHz.pdf](#)

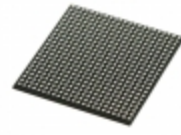
### Customers Also Interested in

#### Recommended Products



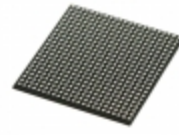
5CEFA7F31I7N

Intel  
IC FPGA 480 I/O 896FBGA



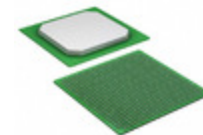
5CEFA7U19C8N

Intel  
IC FPGA 240 I/O 484UBGA



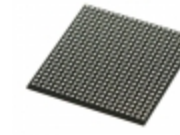
5CEFA9F23C8N

Intel  
IC FPGA 224 I/O 484FBGA



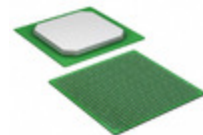
5CEFA7F27I7N

Intel  
IC FPGA 336 I/O 672FBGA



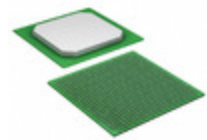
5CEFA9U19I7N

Intel  
IC FPGA 240 I/O 484UBGA



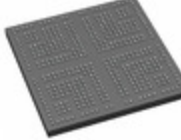
5CEFA7F27C8N

Intel  
IC FPGA 336 I/O 672FBGA



5CEFA9F27I7N

Intel  
IC FPGA 336 I/O 672FBGA



5CEFA7M15I7N

Intel  
IC FPGA 240 I/O 484UBGA



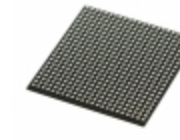
5CEFA9F31C7N

Intel  
IC FPGA 480 I/O 896FBGA



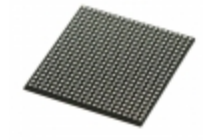
5CEFA7F23C8N

Intel  
IC FPGA 240 I/O 484UBGA



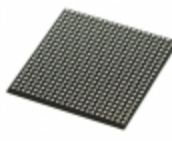
5CEFA7F23I7N

Intel  
IC FPGA 240 I/O 484UBGA



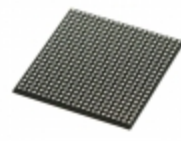
5CEFA7U19I7N

Intel  
IC FPGA 240 I/O 484UBGA



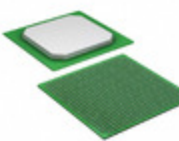
5CEFA7U19C7N

Intel  
IC FPGA 240 I/O 484UBGA



5CEFA9U19C7N

Intel  
IC FPGA 240 I/O 484UBGA



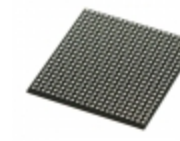
5CEFA7F27C6N

Intel  
IC FPGA 336 I/O 672FBGA



5CEFA7F31C7N

Intel  
IC FPGA 480 I/O 896FBGA



5CEFA9F23I7N

Intel  
IC FPGA 224 I/O 484FBGA



5CEFA7F31C6N

Intel  
IC FPGA 480 I/O 896FBGA

## 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

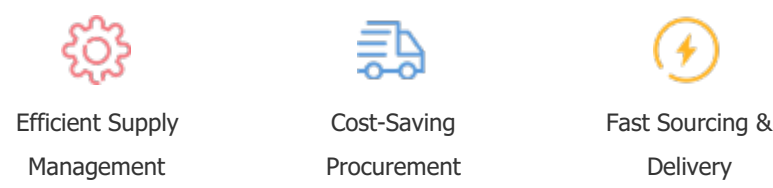
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## Payment Support

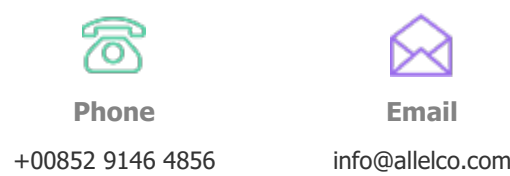
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



## Your Faithful Supply Chain Partner -



Contact us if you have any questions.



## Certifications & Memberships



[View More](#)