

Image may be representation.  
See specifications for product details.



## 5CEFA5F23I7N

Manufacturer Part Number	<b>5CEFA5F23I7N</b>
Manufacturer	<b>Intel</b>
Allelco Part Number	32D-5CEFA5F23I7N
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC FPGA 240 I/O 484FBGA
Package	484-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**

5CEFA5F23I7N - Intel.New Original in Stock. Download Linear Technology 5CEFA5F23I7N datasheet/specifications on AllelcoElec.com.  
Request a quote for 5CEFA5F23I7N, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

5CEFA5F23I7N Tech Specifications  
5CEFA5F23I7N - 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	77000
Total RAM Bits	5001216	Number of LABs/CLBs	29080
Supplier Device Package	484-FBGA (23x23)	Number of I/O	240
Series	Cyclone® V E	Mounting Type	Surface Mount
Package / Case	484-BGA	Base Product Number	5CEFA5
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Intel 5CEFA5F23I7N

Product Attribute				
Part Number	5CEFA5F23I7N	5CEFA5U19C8N	5CEFA4U19I7N	5CEFA4U19C6N
Manufacturer	Intel	Intel	Intel	Intel
Number of I/O	240	224	224	224
Package / Case	484-BGA	484-FBGA	484-FBGA	484-FBGA
Number of LABs/CLBs	29080	29080	18480	18480
Base Product Number	5CEFA5	5CEFA5	5CEFA4	5CEFA4
Number of Logic Elements/Cells	77000	77000	49000	49000
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 100°C (TJ)	0°C ~ 85°C (TJ)	-40°C ~ 100°C (TJ)	0°C ~ 85°C (TJ)
Total RAM Bits	5001216	5001216	3464192	3464192
Supplier Device Package	484-FBGA (23x23)	484-UBGA (19x19)	484-UBGA (19x19)	484-UBGA (19x19)
Series	Cyclone® V E	Cyclone® V E	Cyclone® V E	Cyclone® V E
Voltage - Supply	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V
Package	Tray	Tray	Tray	Tray

### 5CEFA5F23I7N Datasheet PDF

Download 5CEFA5F23I7N pdf datasheets and Intel documentation for 5CEFA5F23I7N - 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](#)

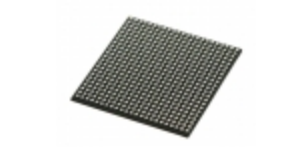
[Mult Dev Software Chgs 3/Jun/2021.pdf](#)

#### Errata

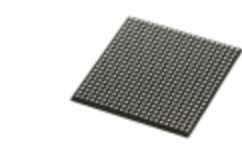
[Cyclone V GX,GT,E Errata.pdf](#)

### Customers Also Interested in

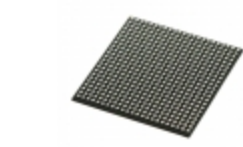
#### Recommended Products



**5CEFA5U19C8N**  
Intel  
IC FPGA 224 I/O 484UBGA



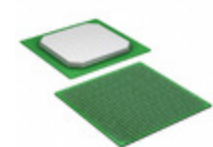
**5CEFA4U19I7N**  
Intel  
IC FPGA 224 I/O 484UBGA



**5CEFA4U19C6N**  
Intel  
IC FPGA 224 I/O 484UBGA



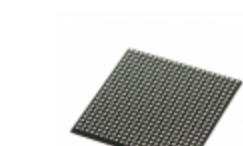
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Intel  
IC FPGA 224 I/O 484UBGA



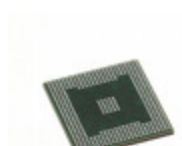
**5CEFA7F27C6N**  
Intel  
IC FPGA 336 I/O 672FBGA



**5CEFA7F23C8N**  
Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA5F23C8N**  
Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA5M13C8N**  
Intel  
IC FPGA 175 I/O 383MBGA



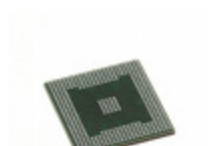
**5CEFA7F31C6N**  
Intel  
IC FPGA 480 I/O 896FBGA



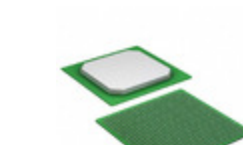
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Intel  
IC FPGA 224 I/O 484UBGA



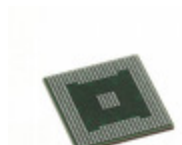
**5CEFA5U19A7N**  
Intel  
IC FPGA 224 I/O 484UBGA



**5CEFA4M13C8N**  
Intel  
IC FPGA 223 I/O 383MBGA



**5CEFA7F27I7N**  
Intel  
IC FPGA 336 I/O 672FBGA



**5CEFA4M13I7N**  
Intel  
IC FPGA 223 I/O 383MBGA



**5CEFA5F23C6N**  
Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA7F23I7N**  
Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA5U19I7N**  
Intel  
IC FPGA 224 I/O 484UBGA



**5CEFA4U19A7N**  
Intel  
IC FPGA 224 I/O 484UBGA

## 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.

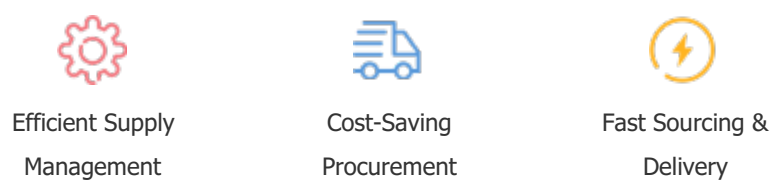
Contact us if you have any questions.

## Payment Support

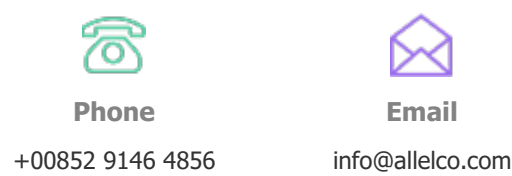
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



## Your Faithful Supply Chain Partner -



Contact us if you have any questions.



## Certifications & Memberships



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