

Image may be representation.  
See specifications for product details.



## 5CEBA9F23C8N

Manufacturer Part Number	<b>5CEBA9F23C8N</b>
Manufacturer	<b>Intel</b>
Allelco Part Number	32D-5CEBA9F23C8N
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC FPGA 224 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

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5CEBA9F23C8N - Intel.New Original in Stock. Download Linear Technology 5CEBA9F23C8N datasheet/specifications on AllelcoElec.com.  
Request a quote for 5CEBA9F23C8N, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

5CEBA9F23C8N Tech Specifications  
5CEBA9F23C8N - Intel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Intel	Operating Temperature	0°C ~ 85°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	484-FBGA (23x23)	Number of I/O	224
Series	Cyclone® V E	Mounting Type	Surface Mount
Package / Case	484-BGA	Base Product Number	5CEBA9
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Intel 5CEBA9F23C8N

Product Attribute				
Part Number	5CEBA9F23C8N	5CEFA2M1317N	5CEFA2F2317N	5CEFA2F23C7N
Manufacturer	Intel	Intel	Intel	Intel
Total RAM Bits	14251008	2002944	2002944	2002944
Number of Logic Elements/Cells	301000	25000	25000	25000
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	Cyclone® V E	Cyclone® V E	Cyclone® V E	Cyclone® V E
Package / Case	484-BGA	383-TFBGA	484-BGA	484-BGA
Operating Temperature	0°C ~ 85°C (TJ)	-40°C ~ 100°C (TJ)	-40°C ~ 100°C (TJ)	0°C ~ 85°C (TJ)
Number of I/O	224	223	224	224
Base Product Number	5CEBA9	5CEFA2	5CEFA2	5CEFA2
Number of LABs/CLBs	113560	9434	9434	9434
Supplier Device Package	484-FBGA (23x23)	383-MBGA (13x13)	484-FBGA (23x23)	484-FBGA (23x23)
Voltage - Supply	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V	1.07V ~ 1.13V
Package	Tray	Tray	Tray	Tray

### 5CEBA9F23C8N Datasheet PDF

Download 5CEBA9F23C8N pdf datasheets and Intel documentation for 5CEBA9F23C8N - 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

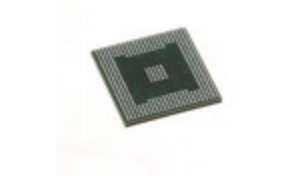
- [Quartus SW/Web Chgs 23/Sep/2021.pdf](#)
- [Mult Dev Software Chgs 3/Jun/2021.pdf](#)

#### Errata

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

### Customers Also Interested in

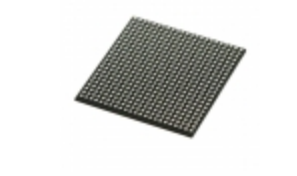
#### Recommended Products



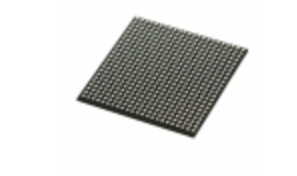
**5CEFA2M13I7N**  
Intel  
IC FPGA 223 I/O 383MBGA



**5CEFA2F23I7N**  
Intel  
IC FPGA 224 I/O 484FBGA



**5CEFA2F23C7N**  
Intel  
IC FPGA 224 I/O 484FBGA



**5CEBA7F23C7N**  
Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA27C7N**  
Altera (Intel)



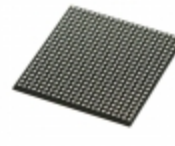
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IC FPGA 224 I/O 484FBGA



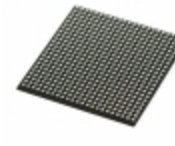
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Intel  
IC FPGA 480 I/O 896FBGA



**5CEBA7U19C7N**  
Intel  
IC FPGA 240 I/O 484UBGA



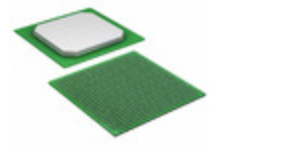
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Intel  
IC FPGA 240 I/O 484UBGA



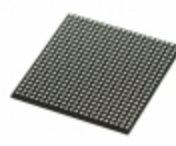
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Intel  
IC FPGA 224 I/O 484FBGA



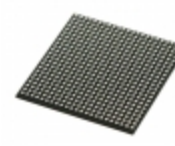
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Altera (Intel)



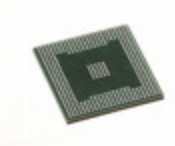
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Intel  
IC FPGA 336 I/O 672FBGA



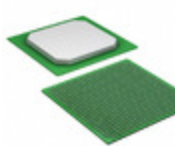
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Intel  
IC FPGA 240 I/O 484FBGA



**5CEFA2F23C8N**  
Intel  
IC FPGA 224 I/O 484FBGA



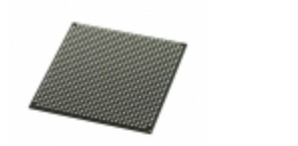
**5CEFA2M13C7N**  
Intel  
IC FPGA 223 I/O 383MBGA



**5CEBA7F27C8N**  
Intel  
IC FPGA 336 I/O 672FBGA



**5CEFA2M13C8N**  
Intel  
IC FPGA 223 I/O 383MBGA



**5CEBA7F31C8N**  
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 -

- 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



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