

Image may be representation.  
See specifications for product details.



## EP1C20F324C8

|                          |   |
|--------------------------|---|
| Manufacturer Part Number | <b>EP1C20F324C8</b>   |
| Manufacturer             | <b>Intel</b>  |
| Allelco Part Number      | 32D-EP1C20F324C8  |
| ECAD Model               | Request Free CAD Models   |
| Parts Description        | IC FPGA 233 I/O 324FBGA   |
| Package                  | 324-BGA   |
| Data sheet               | <a href="#">Virtual JTAG Megafuntion Guide.pdf</a><br><a href="#">Cyclone FPGA Family.pdf</a> |

**Get a Quote**

EP1C20F324C8 - Intel.New Original in Stock. Download Linear Technology EP1C20F324C8 datasheet/specifications on AllelcoElec.com.  
Request a quote for EP1C20F324C8, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

EP1C20F324C8 Tech Specifications

EP1C20F324C8 - Intel technical specifications, attributes, parameters

| Product Attribute       | Attribute Value  | Product Attribute              | Attribute Value |
|-------------------------|------------------|--------------------------------|-----------------|
| Manufacturer            | Intel            | Operating Temperature          | 0°C ~ 85°C (TJ) |
| Voltage - Supply        | 1.425V ~ 1.575V  | Number of Logic Elements/Cells | 20060           |
| Total RAM Bits          | 294912           | Number of LABs/CLBs            | 2006            |
| Supplier Device Package | 324-FBGA (19x19) | Number of I/O                  | 233             |
| Series                  | Cyclone®         | Mounting Type                  | Surface Mount   |
| Package / Case          | 324-BGA          | Base Product Number            | EP1C20          |
| Package                 | Tray             |                                |                 |

### Parts with Similar Specifications

The three parts on the right have similar specifications to Intel EP1C20F324C8

| Product Attribute              |                  |                     |                      |                     |
|--------------------------------|------------------|---------------------|----------------------|---------------------|
| Part Number                    | EP1C20F324C8     | <b>EP1C20F324I7</b> | <b>EP1C12Q240C6N</b> | <b>EP1C20F400C8</b> |
| Manufacturer                   | Intel            | Intel               | Intel                | Intel               |
| Supplier Device Package        | 324-FBGA (19x19) | 324-FBGA (19x19)    | 240-PQFP (32x32)     | 400-FBGA (21x21)    |
| Number of I/O                  | 233              | 233                 | 173                  | 301                 |
| Mounting Type                  | Surface Mount    | Surface Mount       | Surface Mount        | Surface Mount       |
| Number of Logic Elements/Cells | 20060            | 20060               | 12060                | 20060               |
| Total RAM Bits                 | 294912           | 294912              | 239616               | 294912              |
| Operating Temperature          | 0°C ~ 85°C (TJ)  | -40°C ~ 100°C (TJ)  | 0°C ~ 85°C (TJ)      | 0°C ~ 85°C (TJ)     |
| Package / Case                 | 324-BGA          | 324-BGA             | 240-BFQFP            | 400-BGA             |
| Voltage - Supply               | 1.425V ~ 1.575V  | 1.425V ~ 1.575V     | 1.425V ~ 1.575V      | 1.425V ~ 1.575V     |
| Series                         | Cyclone®         | Cyclone®            | Cyclone®             | Cyclone®            |
| Package                        | Tray             | Tray                | Tray                 | Tray                |
| Number of LABs/CLBs            | 2006             | 2006                | 1206                 | 2006                |
| Base Product Number            | EP1C20           | EP1C20              | EP1C12               | EP1C20              |

### EP1C20F324C8 Datasheet PDF

Download EP1C20F324C8 pdf datasheets and Intel documentation for EP1C20F324C8 - Intel.

#### Datasheets

[Virtual JTAG Megafuntion Guide.pdf](#)

[Cyclone FPGA Family.pdf](#)

#### PCN Packaging

[All Dev Pkg Chg 1/Aug/2018.pdf](#)

[Mult Dev Dessicant Chg 19/Jul/2019.pdf](#)

#### PCN Design/Specification

[Mult Series Software Chgs 26/Mar/2020.pdf](#)

[Mult Dev Substrate Material Chg 25/Aug/2017.pdf](#)

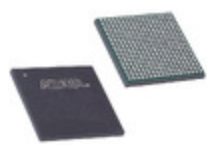
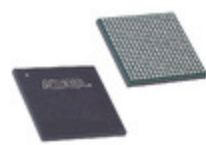
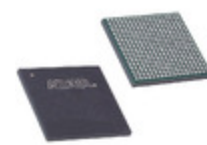
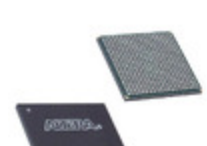
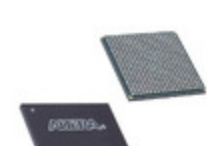
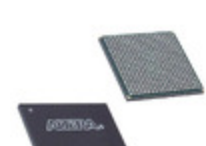
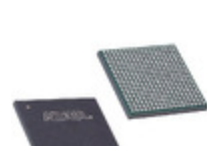
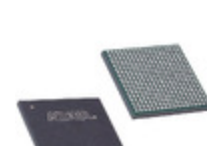
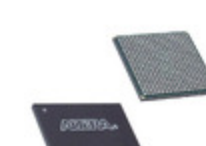
#### PCN Obsolescence/ EOL

[EPC2/Cyclone/Stratix GX 13/Jun/2018.pdf](#)

### Customers Also Interested in

#### Recommended Products



**EP1C20F324I7**Intel  
IC FPGA 233 I/O 324FBGA**EP1C12Q240C6N**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F400C8**Intel  
IC FPGA 301 I/O 400FBGA**EP1C12Q240I7N**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F324C6N**Intel  
IC FPGA 233 I/O 324FBGA**EP1C12Q240C7N**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F324C8N**Intel  
IC FPGA 233 I/O 324FBGA**EP1C12Q240C8N**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F324I7N**Intel  
IC FPGA 233 I/O 324FBGA**EP1C12Q240C8**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F324C7**Intel  
IC FPGA 233 I/O 324FBGA**EP1C12Q240I7**Intel  
IC FPGA 173 I/O 240QFP**EP1C20F400C7N**Intel  
IC FPGA 301 I/O 400FBGA**EP1C20F400C6**Intel  
IC FPGA 301 I/O 400FBGA**EP1C20F400C6N**Intel  
IC FPGA 301 I/O 400FBGA**EP1C20F324C6**Intel  
IC FPGA 233 I/O 324FBGA**EP1C20F324C7N**Intel  
IC FPGA 233 I/O 324FBGA**EP1C20F400C7**Intel  
IC FPGA 301 I/O 400FBGA

## 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 -



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Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

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## Certifications & Memberships



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