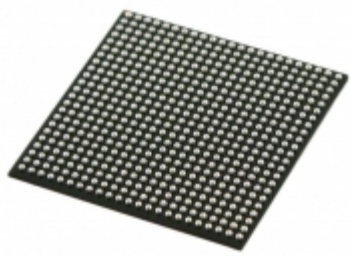


5CEBA7F23C7N





**Part Number:** [5CEBA7F23C7N](#)

**Manufacturer** [Intel® FPGAs](#)

**Description** IC FPGA 240 I/O 484FBGA

**Data sheet:**  [Cyclone V Device Overview](#)  
 [Cyclone V GX,GT,E Errata](#)  
 [Cyclone V Device Datasheet](#)  
 [Cyclone V Device Handbook](#)  
 [Virtual JTAG Megafuntion User Guide](#)

**RoHs Status:** Lead free / RoHS Compliant

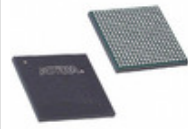
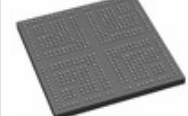
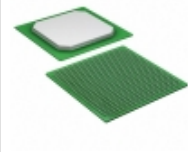
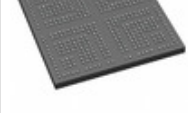
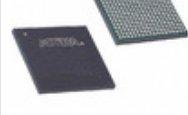
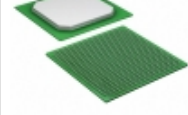
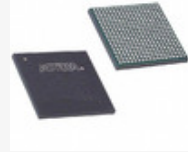
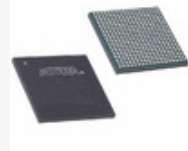
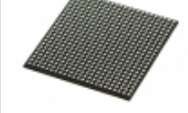
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                 |                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5CEBA7F23C7N                              | Manufacturer                    | <a href="#">Intel® FPGAs</a>                                                                                                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                      | IC FPGA 240 I/O 484FBGA                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                               | 507 pcs                                   | Data sheet                      | <a href="#">Cyclone V Device Overview</a><br><a href="#">Cyclone V GX,GT,E Errata</a><br><a href="#">Cyclone V Device Datasheet</a><br><a href="#">Cyclone V Device Handbook</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                         | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                | 1.07 V ~ 1.13 V                                                                                                                                                                                                                         |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7880704                                   | Supplier Device Package         | 484-FBGA (23x23)                                                                                                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cyclone® V E                              | Package / Case                  | 484-BGA                                                                                                                                                                                                                                 |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                      | 544-3225<br>5CEBA7F23C7N-ND               | Operating Temperature           | 0°C ~ 85°C (TJ)                                                                                                                                                                                                                         |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                   | 149500                                    | Number of LABs/CLBs             | 56480                                                                                                                                                                                                                                   |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                    | 240                                       | Mounting Type                   | Surface Mount                                                                                                                                                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                 | 3 (168 Hours)                             | Manufacturer Standard Lead Time | 8 Weeks                                                                                                                                                                                                                                 |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                   | Lead free / RoHS Compliant                | Base Part Number                | 5CEBA7                                                                                                                                                                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                             |                                                                             |                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">5CEBA4U15C8N</a><br>Description: IC FPGA 176 I/O 324UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA9F23C7N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA5F23C8N</a><br>Description: IC FPGA 240 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7F31C7N</a><br>Description: IC FPGA 480 I/O 896FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7M15C8N</a><br>Description: IC FPGA 240 I/O 484MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA5U19C7N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7F27C7N</a><br>Description: IC FPGA 336 I/O 672FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA5U19C8N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7M15C7N</a><br>Description: IC FPGA 240 I/O 484MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA5F23C7N</a><br>Description: IC FPGA 240 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA4U19C8N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA4U19C7N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA4U15C6N</a><br>Description: IC FPGA 176 I/O 324UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7F31C8N</a><br>Description: IC FPGA 480 I/O 896FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7F27C8N</a><br>Description: IC FPGA 336 I/O 672FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA4U15C7N</a><br>Description: IC FPGA 176 I/O 324UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7F23C8N</a><br>Description: IC FPGA 240 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA4U15I7N</a><br>Description: IC FPGA 176 I/O 324UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7U19C8N</a><br>Description: IC FPGA 240 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEBA7U19C7N</a><br>Description: IC FPGA 240 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |

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