

EP2C5F256C7N





**Part Number:** [EP2C5F256C7N](#)

**Manufacturer:** [Intel® FPGAs](#)

**Description:** IC FPGA 158 I/O 256FBGA

**Data sheet:**  [Cyclone II Handbook](#)  
 [256-FBGA Pkg Info](#)  
 [Virtual JTAG Megafuntion User Guide](#)

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

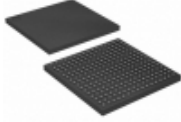
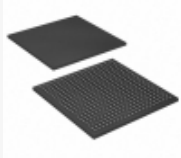
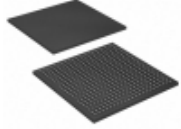
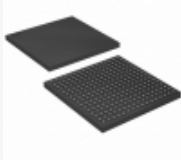
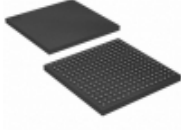
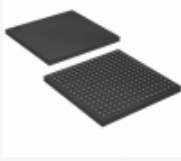
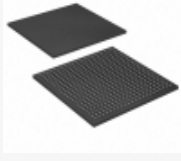
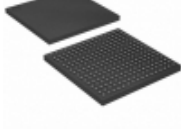
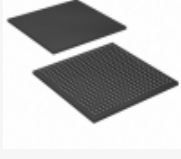
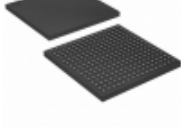
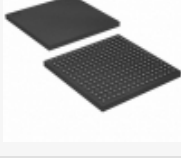
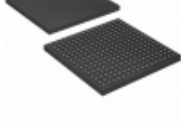
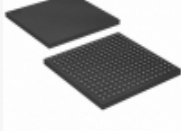
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                                       | EP2C5F256C7N                              | Manufacturer                    | <a href="#">Intel® FPGAs</a>                                                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | IC FPGA 158 I/O 256FBGA                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                | 4973 pcs                                  | Data sheet                      | <a href="#">Cyclone II Handbook</a><br><a href="#">256-FBGA Pkg Info</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                | 1.15 V ~ 1.25 V                                                                                                                 |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                    | 119808                                    | Supplier Device Package         | 256-FBGA (17x17)                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cyclone® II                               | Package / Case                  | 256-LBGA                                                                                                                        |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                       | 544-1657                                  | Operating Temperature           | 0°C ~ 85°C (TJ)                                                                                                                 |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                    | 4608                                      | Number of LABs/CLBs             | 288                                                                                                                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                     | 158                                       | 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                | EP2C5                                                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                              |                                                                             |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP2C5AT144A7N</a><br>Description: IC FPGA 89 I/O 144TQFP  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5Q208C7N</a><br>Description: IC FPGA 142 I/O 208QFP   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5F256C6N</a><br>Description: IC FPGA 158 I/O 256FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C50U484C8N</a><br>Description: IC FPGA 294 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C50U484C8</a><br>Description: IC FPGA 294 I/O 484UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5AF256A7N</a><br>Description: IC FPGA 158 I/O 256FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5F256I8</a><br>Description: IC FPGA 158 I/O 256FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5Q208I8N</a><br>Description: IC FPGA 142 I/O 208QFP   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5Q208C8N</a><br>Description: IC FPGA 142 I/O 208QFP   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5AF256I8N</a><br>Description: IC FPGA 158 I/O 256FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EP2C5Q208C7</a><br>Description: IC FPGA 142 I/O 208QFP    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5Q208I8</a><br>Description: IC FPGA 142 I/O 208QFP    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5F256I8N</a><br>Description: IC FPGA 158 I/O 256FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5F256C6</a><br>Description: IC FPGA 158 I/O 256FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2C5F256C7</a><br>Description: IC FPGA 158 I/O 256FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

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