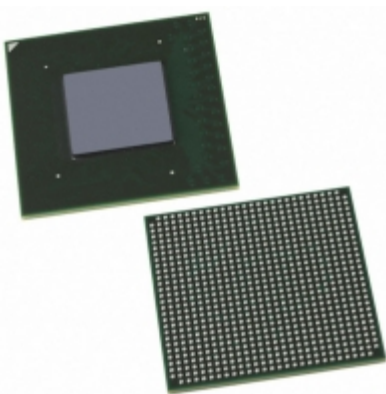


EP2AGX45DF29C5



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [EP2AGX45DF29C5](#)

**Manufacturer:** [Altera \(Intel® Programmable Solutions Group\)](#)

**Description** IC FPGA 364 I/O 780FBGA

**Data sheet:**  [Arria II GX Errata](#)  
 [Arria II Device Handbook Vol 1](#)  
 [Arria II Device Family Overview](#)  
 [Arria II Device Handbook](#)  
 [Arria II Device Datasheet](#)  
 [Virtual JTAG Megafuntion User Guide](#)  
 [Arria II Device Handbook Vol 3](#)

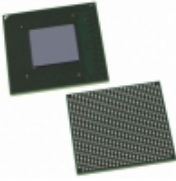
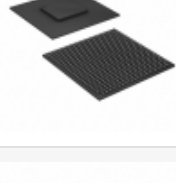
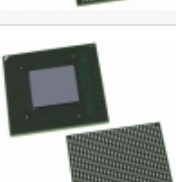
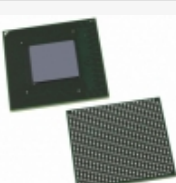
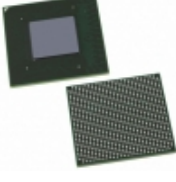
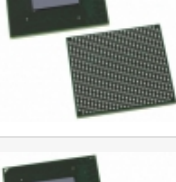
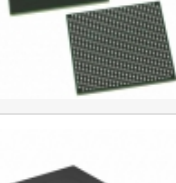
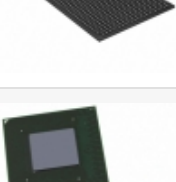
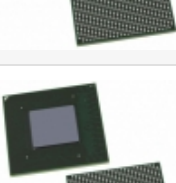
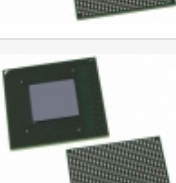
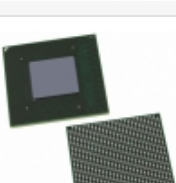
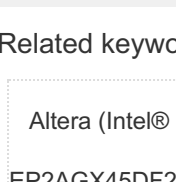
**RoHs Status:** Contains lead / RoHS non-compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                  |                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EP2AGX45DF29C5                            | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                                                                                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 364 I/O 780FBGA                   | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 163 pcs                                   | Data sheet                       | <a href="#">Arria II GX Errata</a><br><a href="#">Arria II Device Handbook Vol 1</a><br><a href="#">Arria II Device Family Overview</a><br><a href="#">Arria II Device Handbook</a><br><a href="#">Arria II Device Datasheet</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a><br><a href="#">Arria II Device Handbook Vol 3</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.87 V ~ 0.93 V                                                                                                                                                                                                                                                                                                                           |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3517440                                   | Supplier Device Package          | 780-FBGA (29x29)                                                                                                                                                                                                                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Arria II GX                               | Package / Case                   | 780-BBGA, FCBGA                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 42959                                                                                                                                                                                                                                                                                                                                     |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1805                                      | Number of I/O                    | 364                                                                                                                                                                                                                                                                                                                                       |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                             |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Contains lead / RoHS non-compliant        | Base Part Number                 | EP2AGX45                                                                                                                                                                                                                                                                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                                  |                                                                             |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP2AGX45DF29C4</a><br>Description: IC FPGA 364 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25C6ES</a><br>Description: IC FPGA 252 I/O 572FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25C6</a><br>Description: IC FPGA 252 I/O 572FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25I3</a><br>Description: IC FPGA 252 I/O 572FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25I3N</a><br>Description: IC FPGA 252 I/O 572FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25C6G</a><br>Description: IC FPGA 252 I/O 572FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25C6N</a><br>Description: IC FPGA 252 I/O 572FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C6G</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29I5N</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C6NES</a><br>Description: IC FPGA 364 I/O 780FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C6N</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25I5N</a><br>Description: IC FPGA 252 I/O 572FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C4N</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29I3</a><br>Description: IC FPGA 364 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF25I5</a><br>Description: IC FPGA 252 I/O 572FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29I3N</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29I5</a><br>Description: IC FPGA 364 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C6</a><br>Description: IC FPGA 364 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX45DF29C5N</a><br>Description: IC FPGA 364 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2AGX65CU17C4</a><br>Description: IC FPGA 156 I/O 358UBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

|                                     |                                              |                                              |                                              |
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|                                     |                                              |                                              | EP2AGX45DF29C5                               |