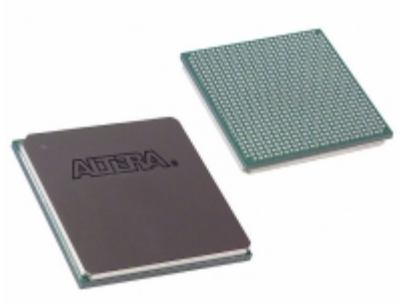


EP4CE115F29C8LN



Images are for reference only.  
See Product Specifications for product details.  
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Part Number: EP4CE115F29C8LN

Manufacturer: Altera (Intel® Programmable Solutions Group)

Description: IC FPGA 528 I/O 780FBGA

Data sheet:

Cyclone IV FPGA Overview

Cyclone IV Device Datasheet

Virtual JTAG Megafuntion User Guide

Cyclone IV Device Family Errata

Cyclone IV Device Handbook

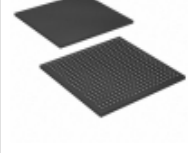
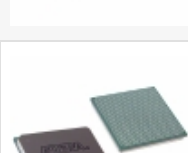
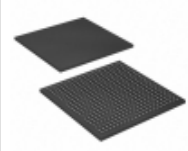
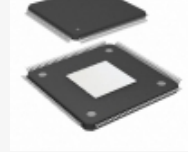
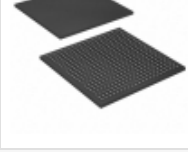
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                 |                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EP4CE115F29C8LN                           | Manufacturer                    | Altera (Intel® Programmable Solutions Group)                                                                                                                                                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC FPGA 528 I/O 780FBGA                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 239 pcs                                   | Data sheet                      | <a href="#">Cyclone IV FPGA Overview</a><br><a href="#">Cyclone IV Device Datasheet</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a><br><a href="#">Cyclone IV Device Family Errata</a><br><a href="#">Cyclone IV Device Handbook</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                | 0.97 V ~ 1.03 V                                                                                                                                                                                                                                 |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3981312                                   | Supplier Device Package         | 780-FBGA (29x29)                                                                                                                                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cyclone® IV E                             | Package / Case                  | 780-BGA                                                                                                                                                                                                                                         |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 544-1472                                  | Operating Temperature           | 0°C ~ 85°C (TJ)                                                                                                                                                                                                                                 |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 114480                                    | Number of LABs/CLBs             | 7155                                                                                                                                                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 528                                       | 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                | EP4CE115                                                                                                                                                                                                                                        |
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| RELATED PRODUCTS                                                                   |                                                                                |                                                                             |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP4CE115F29I8LN</a><br>Description: IC FPGA 528 I/O 780FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29I7</a><br>Description: IC FPGA 528 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23I7</a><br>Description: IC FPGA 280 I/O 484FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23I8LN</a><br>Description: IC FPGA 280 I/O 484FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C8</a><br>Description: IC FPGA 528 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C9L</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C7</a><br>Description: IC FPGA 528 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE15E22C6N</a><br>Description: IC FPGA 81 I/O 144EQFP    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE15E22C7</a><br>Description: IC FPGA 81 I/O 144EQFP     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C8L</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C8N</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23C9LN</a><br>Description: IC FPGA 280 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C9LN</a><br>Description: IC FPGA 528 I/O 780FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29C7N</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23I8L</a><br>Description: IC FPGA 280 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE15E22C6</a><br>Description: IC FPGA 81 I/O 144EQFP     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23C9L</a><br>Description: IC FPGA 280 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29I7N</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F29I8L</a><br>Description: IC FPGA 528 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4CE115F23I7N</a><br>Description: IC FPGA 280 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |

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