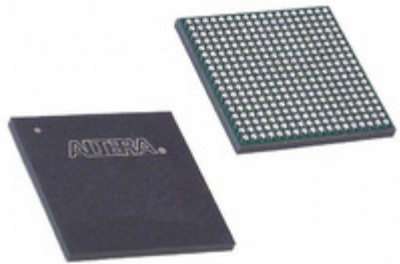


EP1C4F324I7N



Images are for reference only.  
See Product Specifications for product details.  
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Part Number: EP1C4F324I7N

Manufacturer: Altera (Intel® Programmable Solutions Group)

Description: IC FPGA 249 I/O 324FBGA

Data sheet:

-  Cyclone Device Handbook, Volume 1
-  324-FBGA Pkg Info
-  Virtual JTAG Megafuntion User Guide
-  Cyclone FPGA Family

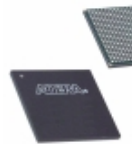
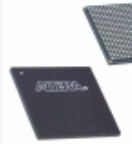
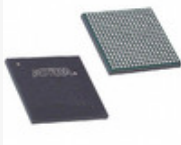
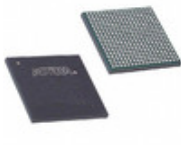
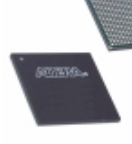
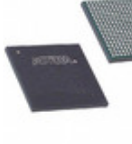
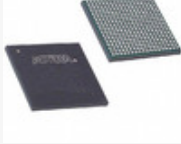
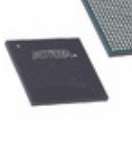
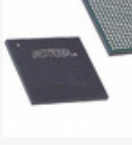
RoHS Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                  |                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EP1C4F324I7N                              | Manufacturer                     | Altera (Intel® Programmable Solutions Group)                                                                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 249 I/O 324FBGA                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3174 pcs                                  | Data sheet                       | <a href="#">Cyclone Device Handbook, Volume 1</a><br><a href="#">324-FBGA Pkg Info</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a><br><a href="#">Cyclone FPGA Family</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 1.425 V ~ 1.575 V                                                                                                                                                                    |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 78336                                     | Supplier Device Package          | 324-FBGA (19x19)                                                                                                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cyclone®                                  | Package / Case                   | 324-BGA                                                                                                                                                                              |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 100°C (TJ)                        | Number of Logic Elements/Cells   | 4000                                                                                                                                                                                 |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                | 400                                       | Number of I/O                    | 249                                                                                                                                                                                  |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                        |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lead free / RoHS Compliant                | Base Part Number                 | EP1C4                                                                                                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                             |                                                                             |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EP1C4F400I7</a><br>Description: IC FPGA 301 I/O 400FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400I7N</a><br>Description: IC FPGA 301 I/O 400FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C8NAB</a><br>Description: IC FPGA FBGA          | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C7N</a><br>Description: IC FPGA 301 I/O 400FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C6</a><br>Description: IC FPGA 301 I/O 400FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324I7</a><br>Description: IC FPGA 249 I/O 324FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C8</a><br>Description: IC FPGA 249 I/O 324FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C8NAA</a><br>Description: IC FPGA FBGA          | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C6N</a><br>Description: IC FPGA 301 I/O 400FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C3XXB</a><br>Description: IC FPGA FBGA                | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C8N</a><br>Description: IC FPGA 301 I/O 400FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C8</a><br>Description: IC FPGA 301 I/O 400FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C6</a><br>Description: IC FPGA 249 I/O 324FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C8N</a><br>Description: IC FPGA 249 I/O 324FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C3T144I7</a><br>Description: IC FPGA 104 I/O 144TQFP  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C7</a><br>Description: IC FPGA 249 I/O 324FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C6N</a><br>Description: IC FPGA 249 I/O 324FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F324C7N</a><br>Description: IC FPGA 249 I/O 324FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C3T144I7N</a><br>Description: IC FPGA 104 I/O 144TQFP | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP1C4F400C7</a><br>Description: IC FPGA 301 I/O 400FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |

| Related keywords for EP1C4F324I7N            |                                              |                        |                                              |
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