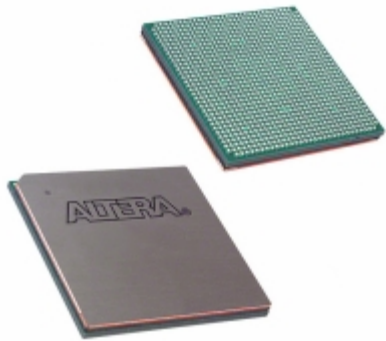


EP2S180F1020C4



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [EP2S180F1020C4](#)

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

**Description** IC FPGA 742 I/O 1020FBGA

**Data sheet:**  [Stratix II Device Handbook, Volume1](#)  
 [896-FBGA Pkg Info](#)  
 [Stratix II Device Handbook](#)  
 [Virtual JTAG Megafuntion User Guide](#)

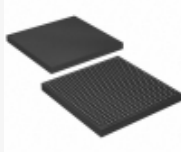
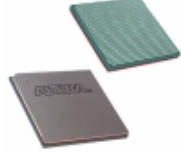
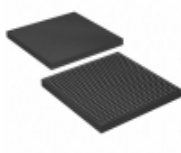
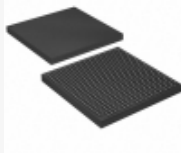
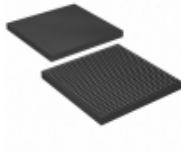
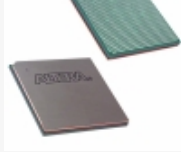
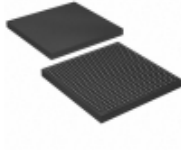
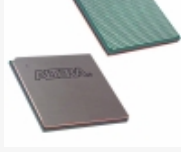
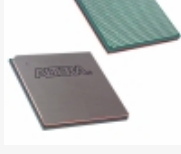
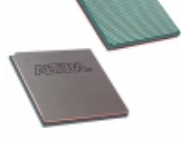
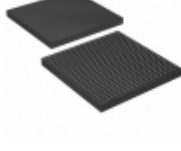
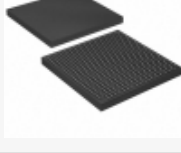
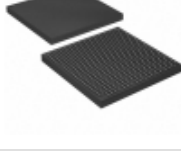
**RoHs Status:** Contains lead / RoHS non-compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                |                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EP2S180F1020C4                            | Manufacturer                   | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IC FPGA 742 I/O 1020FBGA                  | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                                                                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8 pcs                                     | Data sheet                     | <a href="#">Stratix II Device Handbook, Volume1</a><br><a href="#">896-FBGA Pkg Info</a><br><a href="#">Stratix II Device Handbook</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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9383040                                   | Supplier Device Package        | 1020-FBGA (33x33)                                                                                                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Stratix® II                               | Package / Case                 | 1020-BBGA                                                                                                                                                                                     |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 544-1415                                  | Operating Temperature          | 0°C ~ 85°C (TJ)                                                                                                                                                                               |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 179400                                    | Number of LABs/CLBs            | 8970                                                                                                                                                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 742                                       | Mounting Type                  | Surface Mount                                                                                                                                                                                 |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 (72 Hours)                              | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                                                                                                                                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EP2S180                                   |                                |                                                                                                                                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                                             |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | <p>Part#: <a href="#">EP2S180F1508C4N</a></p> <p>Description: IC FPGA 1170 I/O 1508FBGA</p> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672I4</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>      | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020I4</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1508C5</a></p> <p>Description: IC FPGA 1170 I/O 1508FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C3</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>      | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1508C3N</a></p> <p>Description: IC FPGA 1170 I/O 1508FBGA</p> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1508C4</a></p> <p>Description: IC FPGA 1170 I/O 1508FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C5</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>      | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C4N</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>     | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020C4N</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C4</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>      | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020C5</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1508C3</a></p> <p>Description: IC FPGA 1170 I/O 1508FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020I4N</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020C3N</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020C3</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C5N</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>     | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672C3N</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S15F672I4N</a></p> <p>Description: IC FPGA 366 I/O 672FBGA</p>     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | <p>Part#: <a href="#">EP2S180F1020C5N</a></p> <p>Description: IC FPGA 742 I/O 1020FBGA</p>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

| Related keywords for EP2S180F1020C4                            |                                                                |                          |                                                                |
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