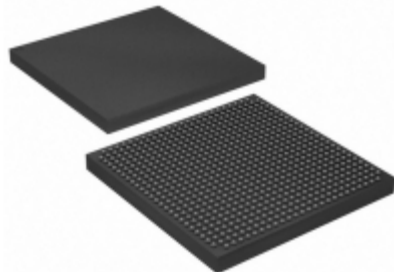


EP20K400EFC672-3





Part Number: [EP20K400EFC672-3](#)

Manufacturer: [Intel® FPGAs](#)

Description: IC FPGA 488 I/O 672FBGA

Data sheet:  [APEX 20K Family Datasheet](#)  
 [672-FBGA Pkg Info](#)  
 [Virtual JTAG Megafuntion User Guide](#)

RoHs Status: Contains lead / RoHS non-compliant

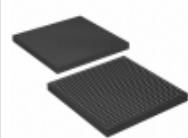
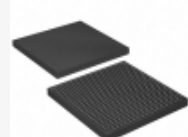
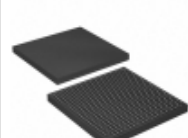
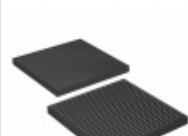
Ship From: Hong Kong

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                                                                                                                                                                                                                                                                                                                                                                                                                                           | EP20K400EFC672-3                          | Manufacturer                     | <a href="#">Intel® FPGAs</a>                                                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC FPGA 488 I/O 672FBGA                   | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5845 pcs                                  | Data sheet                       | <a href="#">APEX 20K Family Datasheet</a><br><a href="#">672-FBGA Pkg Info</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 1.71 V ~ 1.89 V                                                                                                                       |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                        | 212992                                    | Supplier Device Package          | 672-FBGA (27x27)                                                                                                                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                | APEX-20KE®                                | Package / Case                   | 672-BBGA                                                                                                                              |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                           | 544-1103                                  | Operating Temperature            | 0°C ~ 85°C (TJ)                                                                                                                       |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                        | 16640                                     | Number of LABs/CLBs              | 1664                                                                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                         | 488                                       | Number of Gates                  | 1052000                                                                                                                               |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                         | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                         |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                        | Contains lead / RoHS non-compliant        | Base Part Number                 | EP20K400                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                   |                                                                             |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">EP20K400EFC672-1</a><br>Description: IC FPGA 488 I/O 672FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-1N</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF27C1XNGZ</a><br>Description: IC FPGA                 | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF1672-2N</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-1XN</a><br>Description: IC FPGA 488 I/O 672FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF1672-XES</a><br>Description: IC FPGA                 | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF1672-2X</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-2N</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF1672-3</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-2XB</a><br>Description: IC FPGA                 | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-1X</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-3N</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400ERC208-1</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF1672-1X</a><br>Description: IC FPGA                  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-2X</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400ERC208-2</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EFC672-2</a><br>Description: IC FPGA 488 I/O 672FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400ERC208-3</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400ERC240-1</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |

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