

EP20K400EFC672-1XN





Part Number: [EP20K400EFC672-1XN](#)

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

Description: IC FPGA 488 I/O 672FBGA

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

RoHs Status: Lead free / RoHS Compliant

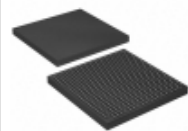
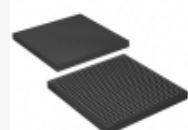
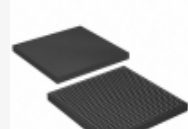
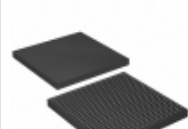
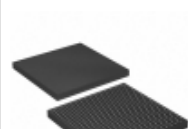
Ship From: Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                |                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EP20K400EFC672-1XN                        | Manufacturer                   | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC FPGA 488 I/O 672FBGA                   | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4827 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                                                                                                                              |
| 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 | Lead free / RoHS Compliant                                                                                                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EP20K400                                  |                                |                                                                                                                                       |
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|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">EP20K400EFI672-2X</a><br>Description: IC FPGA 488 I/O 672FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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|  | 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> |
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|  | Part#: <a href="#">EP20K400EBC652-3N</a><br>Description: IC FPGA 488 I/O 652BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | 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="#">EP20K400EBC652-3</a><br>Description: IC FPGA 488 I/O 652BGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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Related keywords for EP20K400EFC672-1XN

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