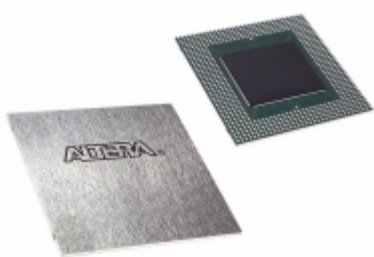


EP20K400EBC652-1N





Part Number: [EP20K400EBC652-1N](#)

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

Description: IC FPGA 488 I/O 652BGA

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

RoHs Status: Lead free / RoHS Compliant

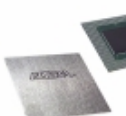
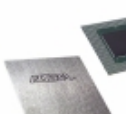
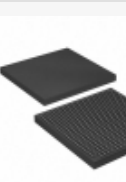
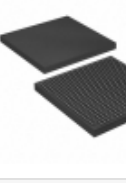
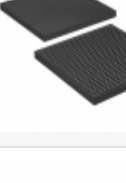
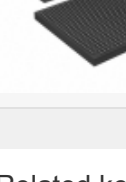
Ship From: Hong Kong

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

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

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                |                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EP20K400EBC652-1N                         | Manufacturer                   | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC FPGA 488 I/O 652BGA                    | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5076 pcs                                  | Data sheet                     | <a href="#">APEX 20K Family Datasheet</a><br><a href="#">652-BGA 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        | 652-BGA (45x45)                                                                                                                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | APEX-20KE®                                | Package / Case                 | 652-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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| RELATED PRODUCTS                                                                   |                                                                                 |                                                                             |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EP20K400EBC652-1</a><br>Description: IC FPGA 488 I/O 652BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EB652C2XGZ</a><br>Description: IC FPGA               | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBC652-1X</a><br>Description: IC FPGA 488 I/O 652BGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672I8</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C8AA</a><br>Description: IC FPGA                | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C9ES</a><br>Description: IC FPGA                | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBC652-2X</a><br>Description: IC FPGA 488 I/O 652BGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C8</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EF27C1XNGA</a><br>Description: IC FPGA               | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C9</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBC652-3AA</a><br>Description: IC FPGA               | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBI652-2X</a><br>Description: IC FPGA 488 I/O 652BGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBC652-1XD</a><br>Description: IC FPGA               | 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> |
|  | Part#: <a href="#">EP20K400EBC652-2</a><br>Description: IC FPGA 488 I/O 652BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C7</a><br>Description: IC FPGA 488 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400EBC652-2N</a><br>Description: IC FPGA 488 I/O 652BGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K400CF672C7GA</a><br>Description: IC FPGA                | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | 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="#">EP20K400CF672C8N</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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