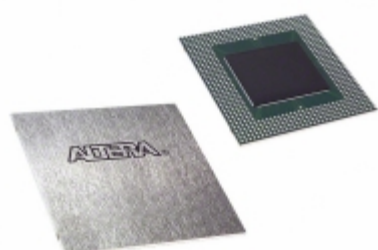


EP20K1000CB652C8



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [EP20K1000CB652C8](#)

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

**Description:** IC FPGA 488 I/O 652BGA

**Data sheet:**  [APEX 20KC Datasheet](#)

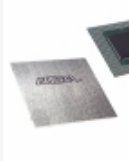
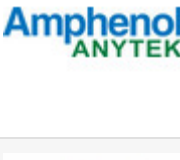
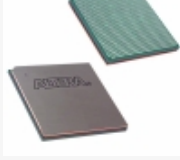
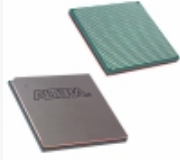
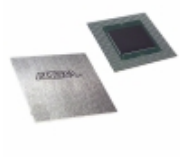
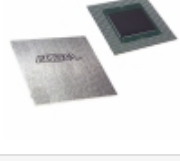
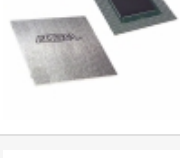
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

[Request For Quotation](#)

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EP20K1000CB652C8                          | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5953 pcs                                  | Data sheet                     | <a href="#">APEX 20KC Datasheet</a>                          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply               | 1.71 V ~ 1.89 V                                              |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 327680                                    | Supplier Device Package        | 652-BGA (45x45)                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | APEX-20KC®                                | Package / Case                 | 652-BBGA                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells | 38400                                                        |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3840                                      | Number of I/O                  | 488                                                          |
| Number of Gates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1772000                                   | Mounting Type                  | Surface Mount                                                |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                   |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EP20K1000                                 |                                |                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                                             |                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP20K1000CF33C7</a><br>Description: IC FPGA 708 I/O 1020FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C8ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CF33C8</a><br>Description: IC FPGA 708 I/O 1020FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2016</a><br>Description: PANEL STEEL 18.2X14.2" WHT            | Manufacturers: <a href="#">Hammond Manufacturing</a>                        | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2024</a><br>Description: PANEL STEEL 18.2X22.2" WHT            | Manufacturers: <a href="#">Hammond Manufacturing</a>                        | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2012</a><br>Description: PANEL STEEL 18.2X10.2" WHT            | Manufacturers: <a href="#">Hammond Manufacturing</a>                        | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2000000000G</a><br>Description: TERM BLOCK HDR 20POS VERT 5MM  | Manufacturers: <a href="#">Anytek (Amphenol Anytek)</a>                     | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CF33C8ES</a><br>Description: IC FPGA                    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C8N</a><br>Description: IC FPGA APEX 20KC 652-BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CF33C7ES</a><br>Description: IC FPGA                    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2020</a><br>Description: PANEL STEEL 18.2X18.2" WHT            | Manufacturers: <a href="#">Hammond Manufacturing</a>                        | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CF33C7N</a><br>Description: IC FPGA APEX 20KC 1020-FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C9N</a><br>Description: IC FPGA APEX 20KC 652-BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2020-9RG</a><br>Description: DC/DC CONVERTER 5.1V 2X12V 5.1V   | Manufacturers: <a href="#">Bel</a>                                          | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C7</a><br>Description: IC FPGA 488 I/O 652BGA      | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C7ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C7N</a><br>Description: IC FPGA APEX 20KC 652-BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP2020-9R</a><br>Description: DC/DC CONVERTER 5.1V 12V 187W      | Manufacturers: <a href="#">Bel</a>                                          | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C9ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP20K1000CB652C9</a><br>Description: IC FPGA 488 I/O 652BGA      | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

|                                                              |                                                              |                                            |                                                              |
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| Related keywords for <b>EP20K1000CB652C8</b>                 |                                                              |                                            |                                                              |
| <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">EP20K1000CB652C8 distributor</a>                 | <a href="#">EP20K1000CB652C8 supplier</a>  | <a href="#">EP20K1000CB652C8 price</a>                       |
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