

EP20K1000CF33C9N





**Part Number:** [EP20K1000CF33C9N](#)

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

**Description:** IC FPGA APEX 20KC 1020-FBGA

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

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

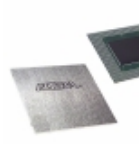
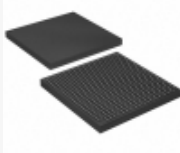
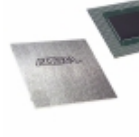
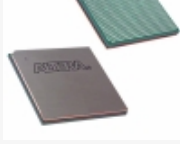
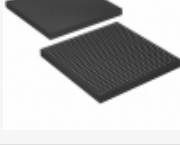
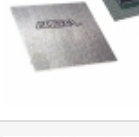
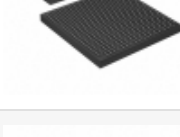
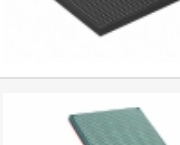
**Ship From:** Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EP20K1000CF33C9N                          | Manufacturer                   | <a href="#">Altera (Intel® Programmable Solutions Group)</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC FPGA APEX 20KC 1020-FBGA               | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4666 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        | 1020-FBGA (33x33)                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | APEX-20KC®                                | Package / Case                 | 1020-BBGA                                                    |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells | 38400                                                        |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3840                                      | Number of I/O                  | 708                                                          |
| Number of Gates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1772000                                   | Mounting Type                  | Surface Mount                                                |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                   |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                                             |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EP20K1000EBC652-1</a><br>Description: IC FPGA 488 I/O 652BGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C9ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CB652C9ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C9</a><br>Description: IC FPGA 708 I/O 1020FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C7N</a><br>Description: IC FPGA APEX 20KC 1020-FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C9</a><br>Description: IC FPGA 508 I/O 672FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C8N</a><br>Description: IC FPGA APEX 20KC 1020-FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C7</a><br>Description: IC FPGA 708 I/O 1020FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C9ES</a><br>Description: IC FPGA                    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C7N</a><br>Description: IC FPGA 508 I/O 672FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CB652C9N</a><br>Description: IC FPGA APEX 20KC 652-BGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C7</a><br>Description: IC FPGA 508 I/O 672FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C7ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C7GZ</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000EB652C1GZ</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C8ES</a><br>Description: IC FPGA                   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C7ES</a><br>Description: IC FPGA                    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C8</a><br>Description: IC FPGA 708 I/O 1020FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF672C8</a><br>Description: IC FPGA 508 I/O 672FBGA     | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP20K1000CF33C8ES</a><br>Description: IC FPGA                    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |

| Related keywords for EP20K1000CF33C9N |                                              |                                     |                           |
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