

EP3SE50F780C3N



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**Part Number:** [EP3SE50F780C3N](#)

**Manufacturer:** [Intel® FPGAs](#)

**Description:** IC FPGA 488 I/O 780FBGA

**Data sheet:**  [Stratix III Device Datasheet](#)  
 [Stratix III Device Handbook Vol 1](#)  
 [Stratix III Device Handbook Vol 2](#)  
 [Stratix III Device Family Overview](#)  
 [Virtual JTAG Megafuntion User Guide](#)

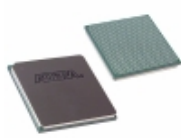
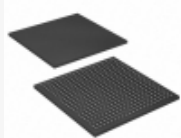
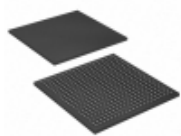
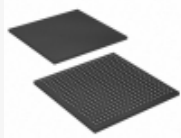
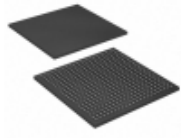
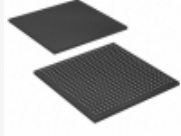
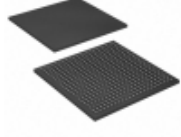
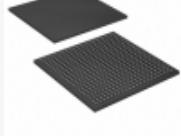
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                       | EP3SE50F780C3N                            | Manufacturer                     | <a href="#">Intel® FPGAs</a>                                                                                                                                                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | IC FPGA 488 I/O 780FBGA                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                | 94 pcs                                    | Data sheet                       | <a href="#">Stratix III Device Datasheet</a><br><a href="#">Stratix III Device Handbook Vol 1</a><br><a href="#">Stratix III Device Handbook Vol 2</a><br><a href="#">Stratix III Device Family Overview</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.86 V ~ 1.15 V                                                                                                                                                                                                                                                     |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5760000                                   | Supplier Device Package          | 780-FBGA (29x29)                                                                                                                                                                                                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                            | Stratix® III E                            | Package / Case                   | 780-BBGA, FCBGA                                                                                                                                                                                                                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                             | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 47500                                                                                                                                                                                                                                                               |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                               | 1900                                      | Number of I/O                    | 488                                                                                                                                                                                                                                                                 |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                     | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                       |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                    | Lead free / RoHS Compliant                | Base Part Number                 | EP3SE50                                                                                                                                                                                                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                |                                                                             |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP3SE50F780I4</a><br>Description: IC FPGA 488 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C2N</a><br>Description: IC FPGA 488 I/O 780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780I4L</a><br>Description: IC FPGA 488 I/O 780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I3</a><br>Description: IC FPGA 296 I/O 484FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I4LN</a><br>Description: IC FPGA 296 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I4</a><br>Description: IC FPGA 296 I/O 484FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C4LN</a><br>Description: IC FPGA 488 I/O 780FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C2</a><br>Description: IC FPGA 488 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I4L</a><br>Description: IC FPGA 296 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780I3N</a><br>Description: IC FPGA 488 I/O 780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C4L</a><br>Description: IC FPGA 488 I/O 780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I4N</a><br>Description: IC FPGA 296 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484I3N</a><br>Description: IC FPGA 296 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C4</a><br>Description: IC FPGA 488 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780I3G</a><br>Description: 780-PIN FBGA             | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780I4LN</a><br>Description: IC FPGA 488 I/O 780FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C3</a><br>Description: IC FPGA 488 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F484C4N</a><br>Description: IC FPGA 296 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780C4N</a><br>Description: IC FPGA 488 I/O 780FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP3SE50F780I3</a><br>Description: IC FPGA 488 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |

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|--------------------------------------------|----------------------------|-------------------------|----------------------|
| Related keywords for <b>EP3SE50F780C3N</b> |                            |                         |                      |
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