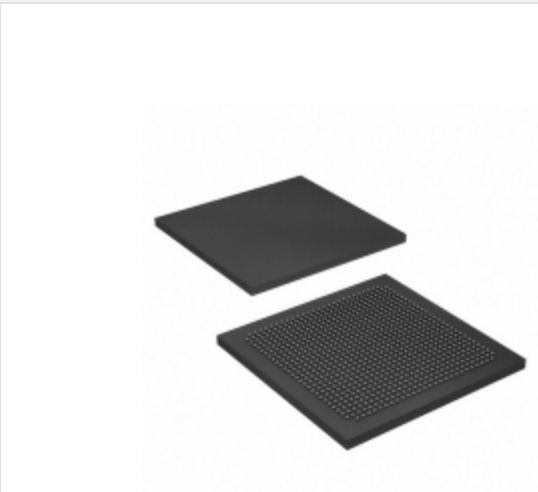


5SGSMD3E3H29C2LN





**Part Number:** 5SGSMD3E3H29C2LN

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

**Description:** IC FPGA 360 I/O 780HBGA

**Data sheet:**  [Stratix V Device Overview](#)  
 [Virtual JTAG Megafuntion User Guide](#)

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

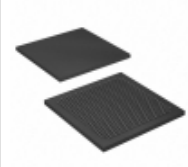
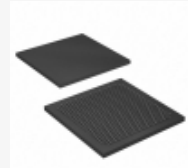
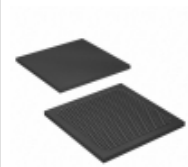
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                                  |                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5SGSMD3E3H29C2LN                          | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IC FPGA 360 I/O 780HBGA                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 31 pcs                                    | Data sheet                       | <a href="#">Stratix V Device Overview</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.82 V ~ 0.88 V                                                                                  |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16937984                                  | Supplier Device Package          | 780-HBGA (33x33)                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Stratix® V GS                             | Package / Case                   | 780-BBGA, FCBGA                                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 236000                                                                                           |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 89000                                     | Number of I/O                    | 360                                                                                              |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lead free / RoHS Compliant                | Base Part Number                 | 5SGSMD3                                                                                          |
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|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29I3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29I3L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29I3LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29C2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3H1F35C2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 432 I/O 1152FBGA   |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29C3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I3LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29C2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29C2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I3L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E2H29I3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29C4N</a>  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29I4N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3E3H29C2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 360 I/O 780HBGA    |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3H1F35C1N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 432 I/O 1152FBGA   |                                                                             |                     |
|  | Part#: <a href="#">5SGSMD3H1F35C2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC FPGA 432 I/O 1152FBGA   |                                                                             |                     |

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