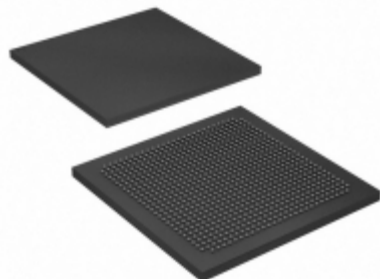


5SGXMA3E1H29C2N



Images are for reference only.  
See Product Specifications for product details.  
**Buy 5SGXMA3E1H29C2N with confidence from Component-World.HK, 1 Year Warranty**



**Part Number:** [5SGXMA3E1H29C2N](#)

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

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

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

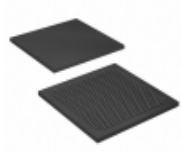
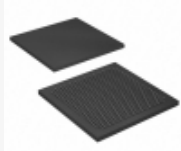
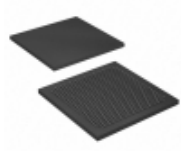
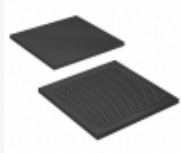
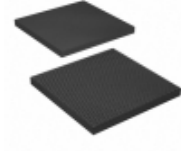
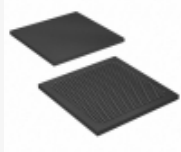
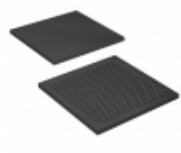
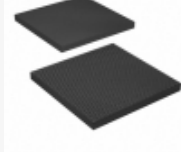
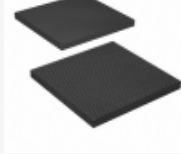
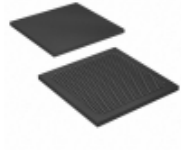
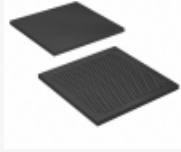
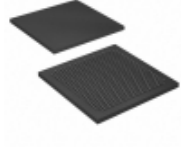
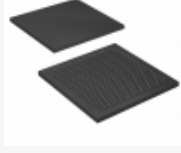
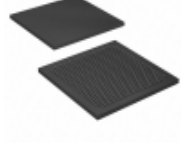
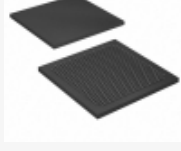
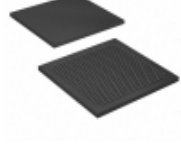
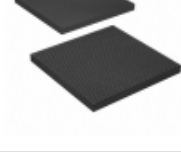
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                  |                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5SGXMA3E1H29C2N                           | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 23 pcs                                    | Data sheet                       | <a href="#">Stratix V Device Handbook</a><br><a href="#">Stratix V Device Datasheet</a><br><a href="#">Stratix V Devices Errata</a><br><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                 | 0.87 V ~ 0.93 V                                                                                                                                                                                                                         |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23704576                                  | Supplier Device Package          | 780-HBGA (33x33)                                                                                                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stratix® V GX                             | Package / Case                   | 780-BBGA, FCBGA                                                                                                                                                                                                                         |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 340000                                                                                                                                                                                                                                  |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 128300                                    | 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                 | 5SGXMA3                                                                                                                                                                                                                                 |
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|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">5SGXMA3E2H29C3N</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29C2L</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E1H29C1N</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXEBBR3H43I3N</a><br>Description: IC FPGA 600 I/O 1760HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29I2L</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29I3L</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXEBBR3H43I3L</a><br>Description: IC FPGA 600 I/O 1760HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">5SGXMA3E2H29C2LN</a><br>Description: IC FPGA 360 I/O 780HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29C1N</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29I2LN</a><br>Description: IC FPGA 360 I/O 780HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXMA3E2H29I2N</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">5SGXMA3E2H29C2N</a><br>Description: IC FPGA 360 I/O 780HBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">5SGXEBBR3H43I4N</a><br>Description: IC FPGA 600 I/O 1760HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXEBBR3H43C4N</a><br>Description: IC FPGA 600 I/O 1760HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5SGXEBBR3H43C2N</a><br>Description: IC FPGA 600 I/O 1760HBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

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