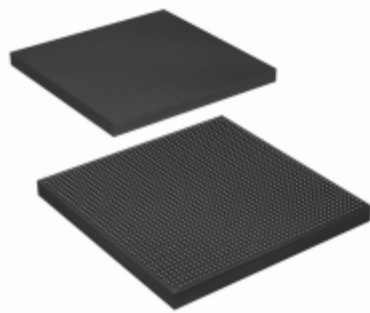


5SGSED8N1F45C2LN





**Part Number:** 5SGSED8N1F45C2LN

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

**Description:** IC FPGA 840 I/O 1932FBGA

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

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

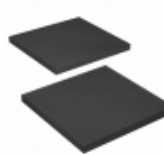
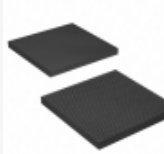
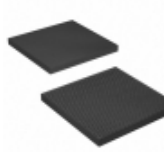
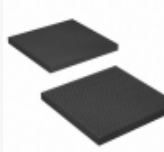
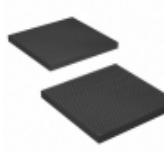
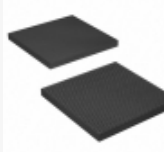
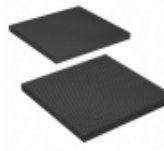
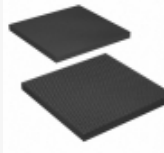
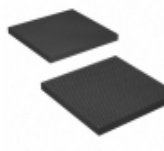
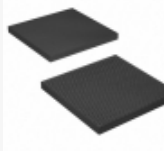
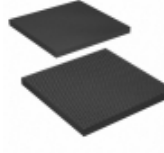
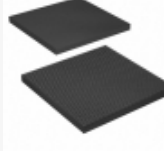
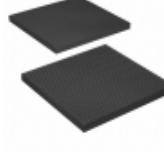
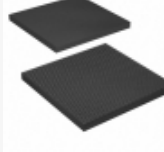
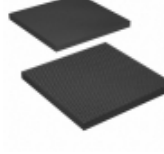
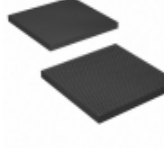
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5SGSED8N1F45C2LN                          | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC FPGA 840 I/O 1932FBGA                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7 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                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60968960                                  | Supplier Device Package          | 1932-FBGA, FC (45x45)                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stratix® V GS                             | Package / Case                   | 1932-BBGA, FCBGA                                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 695000                                                                                           |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 262400                                    | Number of I/O                    | 840                                                                                              |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lead free / RoHS Compliant                | Base Part Number                 | 5SGSED8                                                                                          |
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| RELATED PRODUCTS                                                                   |                                         |                                                                             |                |
|------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">5SGSED8N2F45I2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40C4N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40C2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40C2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40I3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40I3L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45C3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45C2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40I4N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40C3N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45I2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N1F45C2L</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45C2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N1F45C2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45C2LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45I2</a>   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40I3LN</a> | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N2F45I2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8K3F40I3</a>   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 696 I/O 1517FBGA   |                                                                             |                |
|  | Part#: <a href="#">5SGSED8N1F45I2N</a>  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|                                                                                    | Description: IC FPGA 840 I/O 1932FBGA   |                                                                             |                |

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