

5SGSMD5K3F40I3L





**Part Number:** 5SGSMD5K3F40I3L

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

**Description:** IC FPGA 696 I/O 1517FBGA

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

**RoHs Status:** Contains lead / RoHS Compliant

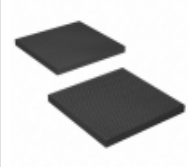
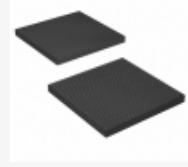
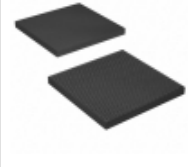
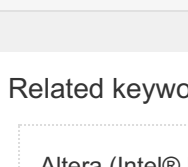
**Ship From:** Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                  |                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5SGSMD5K3F40I3L                           | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 696 I/O 1517FBGA                  | Lead Free Status / RoHS Status   | Contains lead / RoHS Compliant                                                                                                                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 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="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.82 V ~ 0.88 V                                                                                                                                                                            |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 46769152                                  | Supplier Device Package          | 1517-FBGA (40x40)                                                                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stratix® V GS                             | Package / Case                   | 1517-BBGA, FCBGA                                                                                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 100°C (TJ)                        | Number of Logic Elements/Cells   | 457000                                                                                                                                                                                     |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 172600                                    | Number of I/O                    | 696                                                                                                                                                                                        |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                              |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Contains lead / RoHS Compliant            | Base Part Number                 | 5SGSMD5                                                                                                                                                                                    |
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