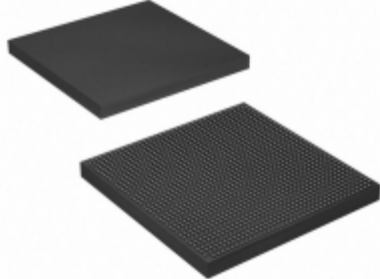


EP4SGX290KF40C4



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [EP4SGX290KF40C4](#)

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

**Description** IC FPGA 744 I/O 1517FBGA

**Data sheet:**  [Stratix IV Device Family Overview](#)  
 [Stratix IV Devices](#)  
 [Stratix IV Device Handbook Vol.4](#)  
 [Stratix IV GX Errata](#)  
 [Stratix IV Device Handbook Vol1](#)  
 [Stratix IV Device Handbook Vol.1](#)  
 [Virtual JTAG Megafuntion User Guide](#)

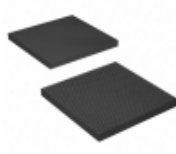
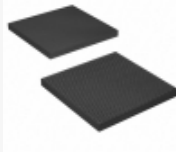
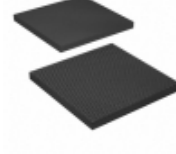
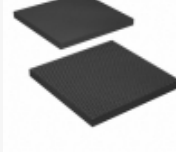
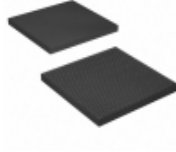
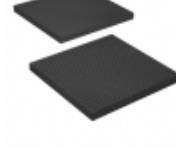
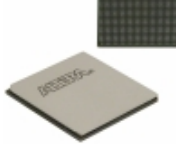
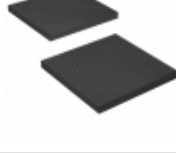
**RoHs Status:** Contains lead / RoHS non-compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                  |                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EP4SGX290KF40C4                           | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                                                                                                                                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 744 I/O 1517FBGA                  | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 pcs                                    | Data sheet                       | <a href="#">Stratix IV Device Family Overview</a><br><a href="#">Stratix IV Devices</a><br><a href="#">Stratix IV Device Handbook Vol.4</a><br><a href="#">Stratix IV GX Errata</a><br><a href="#">Stratix IV Device Handbook Vol1</a><br><a href="#">Stratix IV Device Handbook Vol.1</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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17661952                                  | Supplier Device Package          | 1517-FBGA (40x40)                                                                                                                                                                                                                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stratix® IV GX                            | Package / Case                   | 1517-BBGA, FCBGA                                                                                                                                                                                                                                                                                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 291200                                                                                                                                                                                                                                                                                                                                            |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11648                                     | Number of I/O                    | 744                                                                                                                                                                                                                                                                                                                                               |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                     |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Contains lead / RoHS non-compliant        | Base Part Number                 | EP4SGX290                                                                                                                                                                                                                                                                                                                                         |
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| RELATED PRODUCTS                                                                   |                                                                                  |                                                                             |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">EP4SGX290KF40I3N</a><br>Description: IC FPGA 744 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40C3N</a><br>Description: IC FPGA 744 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF43C2N</a><br>Description: IC FPGA 880 I/O 1760FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF43C2</a><br>Description: IC FPGA 880 I/O 1760FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40C3</a><br>Description: IC FPGA 744 I/O 1517FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290HF35I3N</a><br>Description: IC FPGA 564 I/O 1152FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF43C3</a><br>Description: IC FPGA 880 I/O 1760FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF43C3N</a><br>Description: IC FPGA 880 I/O 1760FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290HF35I4</a><br>Description: IC FPGA 564 I/O 1152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290HF35C4N</a><br>Description: IC FPGA 564 I/O 1152FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290HF35I3</a><br>Description: IC FPGA 564 I/O 1152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40I4</a><br>Description: IC FPGA 744 I/O 1517FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40I4N</a><br>Description: IC FPGA 744 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF43C4</a><br>Description: IC FPGA 880 I/O 1760FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40C2</a><br>Description: IC FPGA 744 I/O 1517FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40C4N</a><br>Description: IC FPGA 744 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EP4SGX290KF40C2N</a><br>Description: IC FPGA 744 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
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|                                              |                                              |                           |                                              |
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