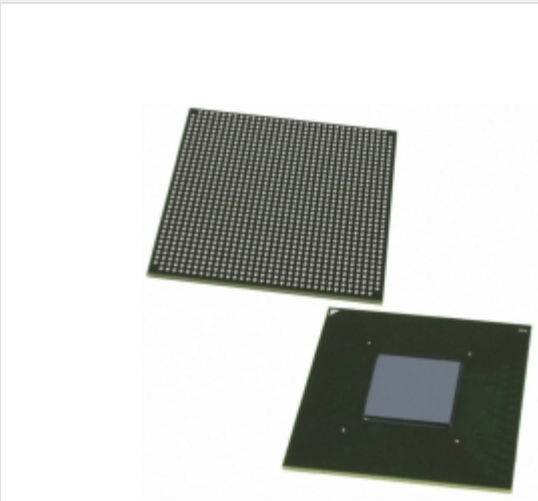


EP2AGX190FF35I3



Images are for reference only.  
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Part Number: EP2AGX190FF35I3

Manufacturer: Altera (Intel® Programmable Solutions Group)

Description: IC FPGA 612 I/O 1152FBGA

Data sheet:

 Arria II GX Errata

 Arria II Device Handbook Vol 1

 Arria II Device Family Overview

 Arria II Device Handbook

 Arria II Device Datasheet

 Virtual JTAG Megafuntion User Guide

 Arria II Device Handbook Vol 3

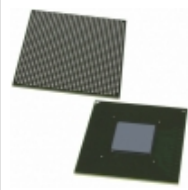
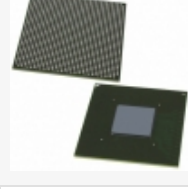
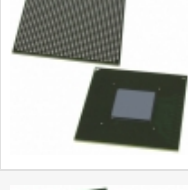
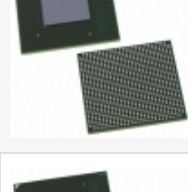
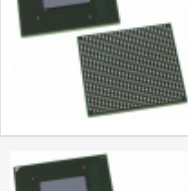
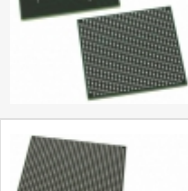
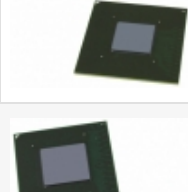
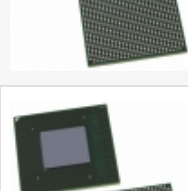
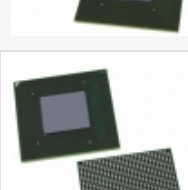
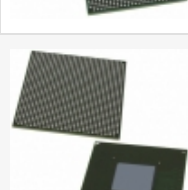
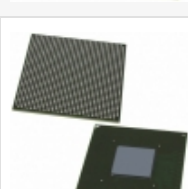
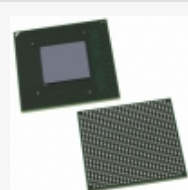
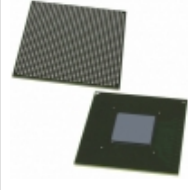
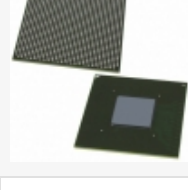
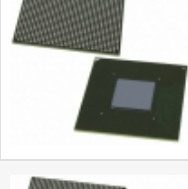
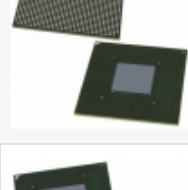
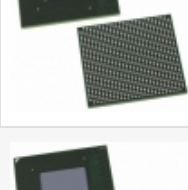
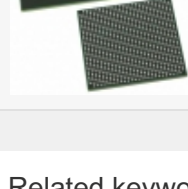
RoHs Status: Contains lead / RoHS non-compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                                  |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EP2AGX190FF35I3                           | Manufacturer                     | Altera (Intel® Programmable Solutions Group)                                                                                                                                                                                                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IC FPGA 612 I/O 1152FBGA                  | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                                                                                                                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5439 pcs                                  | Data sheet                       | <a href="#">Arria II GX Errata</a><br><a href="#">Arria II Device Handbook Vol 1</a><br><a href="#">Arria II Device Family Overview</a><br><a href="#">Arria II Device Handbook</a><br><a href="#">Arria II Device Datasheet</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a><br><a href="#">Arria II Device Handbook Vol 3</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 0.87 V ~ 0.93 V                                                                                                                                                                                                                                                                                                                           |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10177536                                  | Supplier Device Package          | 1152-FBGA (35x35)                                                                                                                                                                                                                                                                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Arria II GX                               | Package / Case                   | 1152-BBGA, FCBGA                                                                                                                                                                                                                                                                                                                          |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -40°C ~ 100°C (TJ)                        | Number of Logic Elements/Cells   | 181165                                                                                                                                                                                                                                                                                                                                    |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7612                                      | Number of I/O                    | 612                                                                                                                                                                                                                                                                                                                                       |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                             |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Contains lead / RoHS non-compliant        | Base Part Number                 | EP2AGX190                                                                                                                                                                                                                                                                                                                                 |
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| RELATED PRODUCTS                                                                   |                                                                                   |                                                                             |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EP2AGX190FF35I3N</a><br>Description: IC FPGA 612 I/O 1152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C4</a><br>Description: IC FPGA 612 I/O 11152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C6</a><br>Description: IC FPGA 612 I/O 11152FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190EF29I5G</a><br>Description: IC FPGA 372 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C4N</a><br>Description: IC FPGA 372 I/O 780FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C6</a><br>Description: IC FPGA 372 I/O 780FBGA    | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35I5N</a><br>Description: IC FPGA 612 I/O 11152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190EF29I5N</a><br>Description: IC FPGA 372 I/O 1780FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C4</a><br>Description: IC FPGA 372 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35I5</a><br>Description: IC FPGA 612 I/O 11152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C6N</a><br>Description: IC FPGA 372 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C6N</a><br>Description: IC FPGA 612 I/O 11152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C5G</a><br>Description: IC FPGA 612 I/O 11152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C5</a><br>Description: IC FPGA 372 I/O 780FBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C5N</a><br>Description: IC FPGA 612 I/O 11152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35I5G</a><br>Description: IC FPGA 612 I/O 1152FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C5</a><br>Description: IC FPGA 612 I/O 11152FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190FF35C4N</a><br>Description: IC FPGA 612 I/O 11152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX260EF29C5N</a><br>Description: IC FPGA 372 I/O 780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">EP2AGX190EF29I5</a><br>Description: IC FPGA 372 I/O 1780FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |

|                                      |                                              |                                              |                                              |
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|                                      |                                              |                                              | EP2AGX190FF35I3                              |