

5CGTFD9E5F31C7N



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**Part Number:** [5CGTFD9E5F31C7N](#)

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

**Description:** IC FPGA 480 I/O 896FBGA

**Data sheet:**  [Cyclone V Device Overview](#)  
 [Cyclone V GX,GT,E Errata](#)  
 [Cyclone V Device Datasheet](#)  
 [Cyclone V Device Handbook](#)  
 [Virtual JTAG Megafuntion User Guide](#)

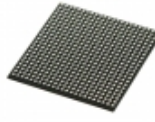
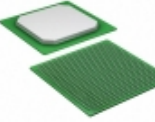
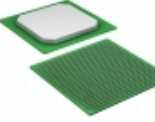
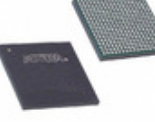
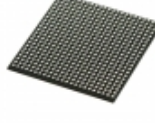
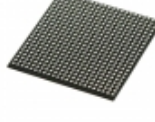
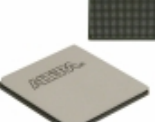
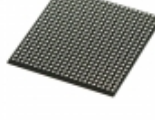
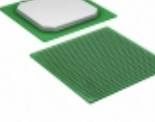
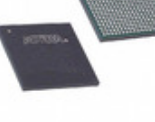
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                  |                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5CGTFD9E5F31C7N                           | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC FPGA 480 I/O 896FBGA                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 180 pcs                                   | Data sheet                       | <a href="#">Cyclone V Device Overview</a><br><a href="#">Cyclone V GX,GT,E Errata</a><br><a href="#">Cyclone V Device Datasheet</a><br><a href="#">Cyclone V Device Handbook</a><br><a href="#">Virtual JTAG Megafuntion User Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply                 | 1.07 V ~ 1.13 V                                                                                                                                                                                                                         |
| Total RAM Bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14251008                                  | Supplier Device Package          | 896-FBGA (31x31)                                                                                                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cyclone® V GT                             | Package / Case                   | 896-BGA                                                                                                                                                                                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0°C ~ 85°C (TJ)                           | Number of Logic Elements/Cells   | 301000                                                                                                                                                                                                                                  |
| Number of LABs/CLBs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 113560                                    | Number of I/O                    | 480                                                                                                                                                                                                                                     |
| Mounting Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Surface Mount                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                           |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                              |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5CGTFD9                                   |                                  |                                                                                                                                                                                                                                         |
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| RELATED PRODUCTS                                                                   |                                                                                 |                                                                             |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">5CGTFD7D5F31C7N</a><br>Description: IC FPGA 480 I/O 896FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9C5F23C7N</a><br>Description: IC FPGA 224 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD7D5F31I7N</a><br>Description: IC FPGA 480 I/O 896FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9A5U19A7N</a><br>Description: IC FPGA 240 I/O 484UBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B7U19C8N</a><br>Description: IC FPGA 208 I/O 484UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">5CGTFD9D5F27C7N</a><br>Description: IC FPGA 336 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B7U15C8N</a><br>Description: IC FPGA 144 I/O 324UBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9A5U19I7N</a><br>Description: IC FPGA 240 I/O 484UBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B6F23C7N</a><br>Description: IC FPGA 208 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9E5F35C7N</a><br>Description: IC FPGA 560 I/O 1152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B7F23C8N</a><br>Description: IC FPGA 208 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9E5F35I7N</a><br>Description: IC FPGA 560 I/O 1152FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD7D5F27I7N</a><br>Description: IC FPGA 336 I/O 672FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9E5F31I7N</a><br>Description: IC FPGA 480 I/O 896FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC4C6F23C7N</a><br>Description: IC FPGA 240 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9A5U19C7N</a><br>Description: IC FPGA 240 I/O 484UBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B6U19C7N</a><br>Description: IC FPGA 208 I/O 484UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGXBC3B6U15C7N</a><br>Description: IC FPGA 144 I/O 324UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CGTFD9C5F23I7N</a><br>Description: IC FPGA 224 I/O 484FBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

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