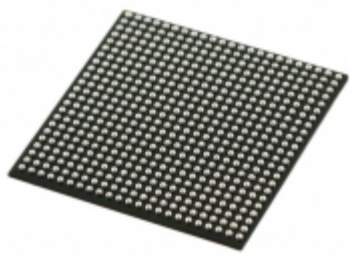


5CEFA2U19I7N



Images are for reference only.  
See Product Specifications for product details.  
**Buy 5CEFA2U19I7N with confidence from Component-World.HK, 1 Year Warranty**



**Part Number:** [5CEFA2U19I7N](#)

**Manufacturer:** [Intel® FPGAs](#)

**Description:** IC FPGA 224 I/O 484UBGA

**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](#)

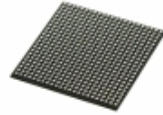
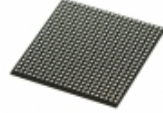
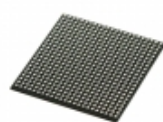
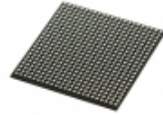
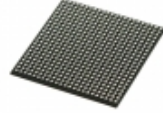
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

[Request For Quotation](#)

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                 |                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5CEFA2U19I7N                              | Manufacturer                    | <a href="#">Intel® FPGAs</a>                                                                                                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | IC FPGA 224 I/O 484UBGA                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                | 1276 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                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2002944                                   | Supplier Device Package         | 484-UBGA (19x19)                                                                                                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cyclone® V E                              | Package / Case                  | 484-FBGA                                                                                                                                                                                                                                |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                       | 544-3284<br>5CEFA2U19I7N-ND               | Operating Temperature           | -40°C ~ 100°C (TJ)                                                                                                                                                                                                                      |
| Number of Logic Elements/Cells                                                                                                                                                                                                                                                                                                                                                                                                                    | 25000                                     | Number of LABs/CLBs             | 9434                                                                                                                                                                                                                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                     | 224                                       | Mounting Type                   | Surface Mount                                                                                                                                                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 (168 Hours)                             | Manufacturer Standard Lead Time | 8 Weeks                                                                                                                                                                                                                                 |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                    | Lead free / RoHS Compliant                | Base Part Number                | 5CEFA2                                                                                                                                                                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                             |                                                                             |                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">5CEFA4F23C8N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4M13I7N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4U19C6N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4U19A7N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2M13I7N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2M13C6N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4F23C7N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2M13C8N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2F23I7N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4F23I7N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2M13C7N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2F23I7</a><br>Description: IC FPGA 224 I/O 484FBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4M13C7N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4M13C8N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4F23C6N</a><br>Description: IC FPGA 224 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2U19C8N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2U19C6N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2U19C7N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA2U19A7N</a><br>Description: IC FPGA 224 I/O 484UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CEFA4M13C6N</a><br>Description: IC FPGA 223 I/O 383MBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |

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