

5CSEBA4U23I7N



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**Part Number:** 5CSEBA4U23I7N

**Manufacturer:** Intel® FPGAs

**Description:** IC FPGA 224 I/O 672UBGA

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

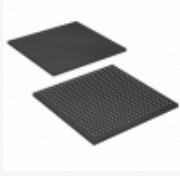
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                           |                                 |                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                        | 5CSEBA4U23I7N                                                                                                                             | Manufacturer                    | <a href="#">Intel® FPGAs</a>                                                                                                                                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 224 I/O 672UBGA                                                                                                                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                 | 707 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> |
| Category                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a>                                                                                                 | Supplier Device Package         | 672-UBGA (23x23)                                                                                                                                                                 |
| Speed                                                                                                                                                                                                                                                                                                                                                                                              | 800MHz                                                                                                                                    | Series                          | Cyclone® V SE                                                                                                                                                                    |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                           | 64KB                                                                                                                                      | Primary Attributes              | FPGA - 40K Logic Elements                                                                                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                        | DMA, POR, WDT                                                                                                                             | Packaging                       | Tray                                                                                                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                     | 672-FBGA                                                                                                                                  | Other Names                     | 544-3011                                                                                                                                                                         |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 100°C (TJ)                                                                                                                        | Number of I/O                   | MCU - 181, FPGA - 145                                                                                                                                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                   | 3 (168 Hours)                                                                                                                             | Manufacturer Standard Lead Time | 15 Weeks                                                                                                                                                                         |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                     | Lead free / RoHS Compliant                                                                                                                | Flash Size                      | -                                                                                                                                                                                |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                               | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™ System On Chip (SOC) IC Cyclone® V SE FPGA - 40K Logic Elements 64KB 800MHz 672-UBGA (23x23) | Core Processor                  | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™                                                                                                                                     |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                       | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG                                                                     | Base Part Number                | 5CSEBA4                                                                                                                                                                          |
| Architecture                                                                                                                                                                                                                                                                                                                                                                                       | MCU, FPGA                                                                                                                                 |                                 |                                                                                                                                                                                  |
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|  | Part#: <a href="#">5CSEBA5U19I7LN</a><br>Description: 484-PIN UBGA            | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA5U19C6N</a><br>Description: IC FPGA 66 I/O 484UBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA5U19C7SN</a><br>Description: IC FPGA 66 I/O 484UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U23C8SN</a><br>Description: IC FPGA 188 I/O 672UBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">5CSEBA5U19C7N</a><br>Description: IC FPGA 66 I/O 484UBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U23I7SN</a><br>Description: IC FPGA 188 I/O 672UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U23I7LN</a><br>Description: 672-PIN UBGA            | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U19I7N</a><br>Description: IC FPGA 240 I/O 484UBGA  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA5U19I7SN</a><br>Description: IC FPGA 66 I/O 484UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U19I7LN</a><br>Description: 484-PIN UBGA            | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U23C7N</a><br>Description: IC FPGA 188 I/O 672UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U19I7SN</a><br>Description: IC FPGA 161 I/O 484FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA4U23C8N</a><br>Description: IC FPGA 188 I/O 672UBGA  | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA5U19I7N</a><br>Description: IC FPGA 66 I/O 484UBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">5CSEBA5U19C8N</a><br>Description: IC FPGA 66 I/O 484UBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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