

5CSEMA5U23I7N



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**Part Number:** 5CSEMA5U23I7N

**Manufacturer:** Intel® FPGAs

**Description:** IC FPGA 145 I/O 672UBGA

**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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |                                  |                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5CSEMA5U23I7N                                | Manufacturer                     | <a href="#">Intel® FPGAs</a>                                                                                                                                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | IC FPGA 145 I/O 672UBGA                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                | 556 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>    | Supplier Device Package          | 672-UBGA (23x23)                                                                                                                                                                                                                        |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                             | 800MHz                                       | Series                           | Cyclone® V SE                                                                                                                                                                                                                           |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64KB                                         | Primary Attributes               | FPGA - 85K Logic Elements                                                                                                                                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                       | DMA, POR, WDT                                | Packaging                        | Tray                                                                                                                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                    | 672-FBGA                                     | 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 - 85K 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                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5CSEMA5                                      | Architecture                     | MCU, FPGA                                                                                                                                                                                                                               |
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|  | Part#: <a href="#">5CSEMA6U23C6N</a><br>Description: IC FPGA 145 I/O 672UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CSEMA5U23C8N</a><br>Description: IC FPGA 145 I/O 672UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CSEMA6F31I7N</a><br>Description: IC FPGA 288 I/O 896FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">5CSEMA4U23I7N</a><br>Description: IC FPGA 224 I/O 672UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CSEMA5F31C8N</a><br>Description: IC FPGA 288 I/O 896FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">5CSEMA5U23C7N</a><br>Description: IC FPGA 145 I/O 672UBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
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