

5ASXMB5E4F31I3N



**Part Number:** 5ASXMB5E4F31I3N

**Manufacturer:** Intel® FPGAs

**Description:** IC FPGA 170 I/O 896FBGA

**Data sheet:**  [Arria V Device Handbook](#)  
 [Arria V Datasheet](#)  
 [Arria V Device Overview](#)

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

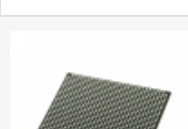
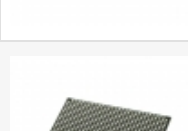
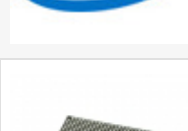
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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                         |                                  |                                                                                                                         |
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| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5ASXMB5E4F31I3N                                                                                                                         | Manufacturer                     | <a href="#">Intel® FPGAs</a>                                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC FPGA 170 I/O 896FBGA                                                                                                                 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21 pcs                                                                                                                                  | Data sheet                       | <a href="#">Arria V Device Handbook</a><br><a href="#">Arria V Datasheet</a><br><a href="#">Arria V Device Overview</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a>                                                                                               | Supplier Device Package          | 896-FBGA (31x31)                                                                                                        |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                              | 800MHz                                                                                                                                  | Series                           | Arria V SX                                                                                                              |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64KB                                                                                                                                    | Primary Attributes               | FPGA - 462K Logic Elements                                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                        | DMA, POR, WDT                                                                                                                           | Packaging                        | Tray                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                     | 896-BBGA, FCBGA                                                                                                                         | Operating Temperature            | -40°C ~ 100°C (TJ)                                                                                                      |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                      | MCU - 208, FPGA - 250                                                                                                                   | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                           |
| 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 Arria V SX FPGA - 462K Logic Elements 64KB 800MHz 896-FBGA (31x31) | Core Processor                   | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™                                                                            |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                       | EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG                                                                           | Base Part Number                 | 5ASXMB5                                                                                                                 |
| Architecture                                                                                                                                                                                                                                                                                                                                                                                                                                       | MCU, FPGA                                                                                                                               |                                  |                                                                                                                         |
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