

10AS066H4F34E3LG





**Part Number:** 10AS066H4F34E3LG

**Manufacturer:** Intel® FPGAs

**Description:** IC SOC FPGA 492 I/O 1152FBGA

**Data sheet:**  [Arria® 10 Device Overview](#)  
 [Arria 10 Device Datasheet](#)  
 [Arria 10 Device Overview](#)

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

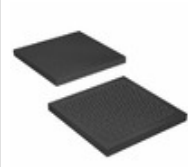
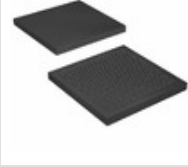
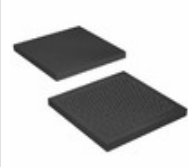
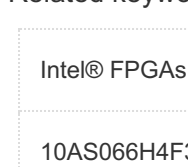
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |                                  |                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10AS066H4F34E3LG                             | Manufacturer                     | <a href="#">Intel® FPGAs</a>                                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                         | IC SOC FPGA 492 I/O 1152FBGA                 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                  | 38 pcs                                       | Data sheet                       | <a href="#">Arria® 10 Device Overview</a><br><a href="#">Arria 10 Device Datasheet</a><br><a href="#">Arria 10 Device Overview</a>          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                            | <a href="#">Integrated Circuits (ICs)</a>    | Supplier Device Package          | 1152-FCBGA (35x35)                                                                                                                          |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.5GHz                                       | Series                           | Arria 10 SX                                                                                                                                 |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                            | 256KB                                        | Primary Attributes               | FPGA - 660K Logic Elements                                                                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                         | DMA, POR, WDT                                | Packaging                        | Tray                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1152-BBGA, FCBGA                             | Operating Temperature            | 0°C ~ 100°C (TJ)                                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                       | 492                                          | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                               |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                     | 12 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 Arria 10 SX FPGA - 660K Logic Elements 256KB 1.5GHz 1152-FCBGA (35x35) |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™ | Connectivity                     | EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG                                                                               |
| Architecture                                                                                                                                                                                                                                                                                                                                                                                                                                        | MCU, FPGA                                    |                                  |                                                                                                                                             |
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|  | Part#: <a href="#">10AS066H4F34E3SG</a><br>Description: IC SOC FPGA 492 I/O 1152FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">10AS066H2F34I2SGES</a><br>Description: IC SOC FPGA 492 I/O 1152FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">10AS066H3F34I3SGES</a><br>Description: IC FPGA 492 I/O 1152FCBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">10AS066H3F34E2SG</a><br>Description: IC SOC FPGA 492 I/O 1152FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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|  | Part#: <a href="#">10AS066K1F35E1SG</a><br>Description: IC SOC FPGA 396 I/O 1152FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
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