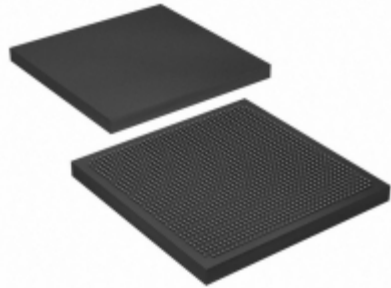


10AS066N3F40I2SGES



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** 10AS066N3F40I2SGES

**Manufacturer:** [Altera \(Intel® Programmable Solutions Group\)](#)

**Description:** IC SOC FPGA 588 I/O 1517FBGA

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

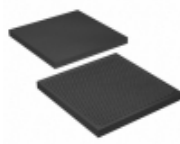
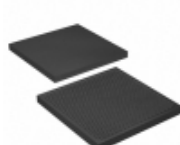
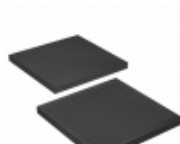
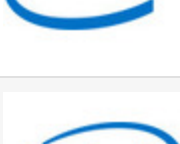
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                             |                                  |                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10AS066N3F40I2SGES                                                                                                                          | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC SOC FPGA 588 I/O 1517FBGA                                                                                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19 pcs                                                                                                                                      | Data sheet                       | <a href="#">Arria® 10 Device Overview</a><br><a href="#">Arria 10 Device Datasheet</a><br><a href="#">Arria 10 Processor Ref Manual</a><br><a href="#">Arria 10 Device Overview</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a>                                                                                                   | Supplier Device Package          | 1517-FCBGA (40x40)                                                                                                                                                                  |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.5GHz                                                                                                                                      | Series                           | Arria 10 SX                                                                                                                                                                         |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 256KB                                                                                                                                       | Primary Attributes               | FPGA - 660K Logic Elements                                                                                                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DMA, POR, WDT                                                                                                                               | Packaging                        | Tray                                                                                                                                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1517-BBGA, FCBGA                                                                                                                            | Operating Temperature            | -40°C ~ 100°C (TJ)                                                                                                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 588                                                                                                                                         | 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 10 SX FPGA - 660K Logic Elements 256KB 1.5GHz 1517-FCBGA (40x40) | 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="#">10AS066N4F40I3SGES</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AT090S1F45E1SG</a><br>Description: 1932-PIN FBGA                  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N3F40I2LG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AT115N3F40E2SGE2</a><br>Description: IC FPGA 600 I/O 1517FCBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N3F40E2LG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I2SGES</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N3F40I2SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N4F40I3SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N4F40E3LG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N4F40E3SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AT090S2F45E2SG</a><br>Description: 1932-PIN FBGA                  | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N3F40E2SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I1SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I2SG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N4F40I3LG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I1SP</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I1HG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AS066N2F40I2LG</a><br>Description: IC SOC FPGA 588 I/O 1517FBGA   | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AT115N2F40E2SGE2</a><br>Description: IC FPGA 600 I/O 1517FCBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">10AT115N2F40E2SGES</a><br>Description: IC FPGA 600 I/O 1517FCBGA    | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <a href="#">RFQ</a> |

|                                         |                                              |                                       |                                              |
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