



Altera (Intel® Programmable



Solutions Group)

10AS016E3F29I1SG

Part Number:10AS016E3F29I1SG

Manufacturer/Brand:Altera (Intel® Programmable Solutions Group)

Product descriptionIC SOC FPGA 288 I/O 780FBGA

Datasheets:

1.10AS016E3F29I1SG.pdf

2.10AS016E3F29I1SG.pdf

3.10AS016E3F29I1SG.pdf

RoHS Status

Lead free / RoHS Compliant

Stock Condition5191 pcs stock

Ship FromHong Kong

Shipment WayDHL/Fedex/TNT/UPS/EMS

REQUEST FOR QUOTATION

Specifications of 10AS016E3F29I1SG

|                                  |                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | 10AS016E3F29I1SG                                                                                                                                                                                                                                                                                                                                               |
| MANUFACTURER                     | Altera (Intel® Programmable Solutions Group)                                                                                                                                                                                                                                                                                                                   |
| DESCRIPTION                      | IC SOC FPGA 288 I/O 780FBGA                                                                                                                                                                                                                                                                                                                                    |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                     |
| QUANTITY AVAILABLE               | 5191 pcs                                                                                                                                                                                                                                                                                                                                                       |
| DATA SHEET                       | <div>1.10AS016E3F29I1SG.pdf</div> <div>2.10AS016E3F29I1SG.pdf</div> <div>3.10AS016E3F29I1SG.pdf</div> |
| SUPPLIER DEVICE PACKAGE          | 780-FBGA (29x29)                                                                                                                                                                                                                                                                                                                                               |
| SPEED                            | 1.5GHz                                                                                                                                                                                                                                                                                                                                                         |
| SERIES                           | Arria 10 SX                                                                                                                                                                                                                                                                                                                                                    |
| RAM SIZE                         | 256KB                                                                                                                                                                                                                                                                                                                                                          |
| PRIMARY ATTRIBUTES               | FPGA - 160K Logic Elements                                                                                                                                                                                                                                                                                                                                     |
| PERIPHERALS                      | DMA, POR, WDT                                                                                                                                                                                                                                                                                                                                                  |
| PACKAGING                        | Tray                                                                                                                                                                                                                                                                                                                                                           |
| PACKAGE / CASE                   | 780-BBGA, FCBGA                                                                                                                                                                                                                                                                                                                                                |
| OPERATING TEMPERATURE            | -40°C ~ 100°C (TJ)                                                                                                                                                                                                                                                                                                                                             |
| NUMBER OF I/O                    | 288                                                                                                                                                                                                                                                                                                                                                            |
| 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 - 160K Logic Elements 256KB 1.5GHz 780-FBGA (29x29)                                                                                                                                                                                                                      |
| 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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| <div></div> <div>10AS016E4F27E3LG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 240 I/O 672FBGA</div> <div>In stock: 156 pcs</div> <div>RFQ</div>                                   | <div></div> <div>10AS016E3F29E2SG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 288 I/O 780FBGA</div> <div>In stock: 133 pcs</div> <div>RFQ</div> |
| <div></div> <div>10AS016E4F27I3SG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 240 I/O 672FBGA</div> <div>In stock: 164 pcs</div> <div>RFQ</div>                                   | <div></div> <div>10AS016E3F29I1HG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 288 I/O 780FBGA</div> <div>In stock: 106 pcs</div> <div>RFQ</div> |
| <div></div> <div>10AS016E3F29E1HG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 288 I/O 780FBGA</div> <div>In stock: 108 pcs</div> <div>RFQ</div>                                   | <div></div> <div>10AS016E4F27E3SG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 240 I/O 672FBGA</div> <div>In stock: 173 pcs</div> <div>RFQ</div> |
| <div></div> <div>10AS016E3F29E1SG</div> <div>Manufacturers: Altera (Intel® Programmable Solutions Group)</div> <div>Description: IC SOC FPGA 288 I/O 780FBGA</div> <div>In stock: 3712 pcs</div> <div>RFQ</div> | <div></div> <div>10AS016E3F27I2SG</div> <div>Manufacturers: Intel® FGAs</div> <div>Description: IC SOC FPGA 240 I/O 672FBGA</div> <div>In stock: 123 pcs</div> <div>RFQ</div> |