



Altera (Intel® Programmable Solutions Group)



10AS048E1F29E1SG

Part Number:10AS048E1F29E1SG

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

Product description:IC SOC FPGA 360 I/O 780FBGA

 1.10AS048E1F29E1SG.pdf

 2.10AS048E1F29E1SG.pdf

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Datasheets:

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RoHs Status

 Lead free / RoHS Compliant

Ship From:Hong Kong

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

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

Specifications of 10AS048E1F29E1SG

|                                  |                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | 10AS048E1F29E1SG                                                                                                                                                                                                                                                                                                                                                  |
| MANUFACTURER                     | Altera (Intel® Programmable Solutions Group)                                                                                                                                                                                                                                                                                                                      |
| DESCRIPTION                      | IC SOC FPGA 360 I/O 780FBGA                                                                                                                                                                                                                                                                                                                                       |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                        |
| DATA SHEET                       | <div> 1.10AS048E1F29E1SG.pdf</div> <div> 2.10AS048E1F29E1SG.pdf</div> <div> 3.10AS048E1F29E1SG.pdf</div> |
| SUPPLIER DEVICE PACKAGE          | 780-FBGA (29x29)                                                                                                                                                                                                                                                                                                                                                  |
| SPEED                            | 1.5GHz                                                                                                                                                                                                                                                                                                                                                            |
| SERIES                           | Arria 10 SX                                                                                                                                                                                                                                                                                                                                                       |
| RAM SIZE                         | 256KB                                                                                                                                                                                                                                                                                                                                                             |
| PRIMARY ATTRIBUTES               | FPGA - 480K Logic Elements                                                                                                                                                                                                                                                                                                                                        |
| PERIPHERALS                      | DMA, POR, WDT                                                                                                                                                                                                                                                                                                                                                     |
| PACKAGING                        | Tray                                                                                                                                                                                                                                                                                                                                                              |
| PACKAGE / CASE                   | 780-BBGA, FCBGA                                                                                                                                                                                                                                                                                                                                                   |
| OPERATING TEMPERATURE            | 0°C ~ 100°C (TJ)                                                                                                                                                                                                                                                                                                                                                  |
| NUMBER OF I/O                    | 360                                                                                                                                                                                                                                                                                                                                                               |
| 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 - 480K 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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