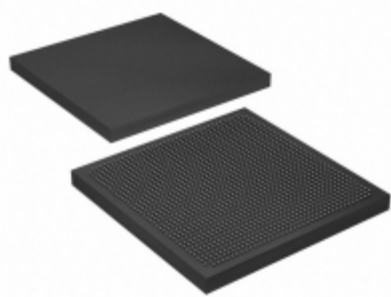


10AS057K1F40I1SG



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** 10AS057K1F40I1SG

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

**Description:** IC SOC FPGA 696 I/O 1517FBGA

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

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

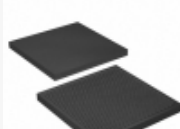
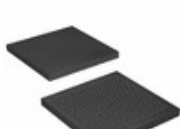
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| PRODUCT PARAMETER              |                                                                                                                                             |                                  |                                                                                                                                    |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                    | 10AS057K1F40I1SG                                                                                                                            | Manufacturer                     | <a href="#">Altera (Intel® Programmable Solutions Group)</a>                                                                       |
| Description                    | IC SOC FPGA 696 I/O 1517FBGA                                                                                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                         |
| Quantity Available             | 17 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          | 1517-FCBGA (40x40)                                                                                                                 |
| Speed                          | 1.5GHz                                                                                                                                      | Series                           | Arria 10 SX                                                                                                                        |
| RAM Size                       | 256KB                                                                                                                                       | Primary Attributes               | FPGA - 570K Logic Elements                                                                                                         |
| Peripherals                    | DMA, POR, WDT                                                                                                                               | Packaging                        | Tray                                                                                                                               |
| Package / Case                 | 1517-BBGA, FCBGA                                                                                                                            | Operating Temperature            | -40°C ~ 100°C (TJ)                                                                                                                 |
| Number of I/O                  | 696                                                                                                                                         | 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 - 570K 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="#">10AS057K2F40E1SG</a><br>Description: IC SOC FPGA 696 I/O 1517FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">10AS057K1F35E1SG</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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|  | Part#: <a href="#">10AS057K1F40I1HG</a><br>Description: IC SOC FPGA 696 I/O 1517FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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|  | Part#: <a href="#">10AS057K1F35I1SG</a><br>Description: IC SOC FPGA 396 I/O 1152FBGA | Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">10AS057K2F35I2LG</a><br>Description: IC SOC FPGA 396 I/O 1152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">10AS057K2F35E1HG</a><br>Description: IC SOC FPGA 396 I/O 1152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
|  | Part#: <a href="#">10AS057K2F35I2SG</a><br>Description: IC SOC FPGA 396 I/O 1152FBGA | Manufacturers: <a href="#">Intel® FPGAs</a>                                 | <div>RFQ</div> |
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