

M2S090-FCS325I



Part Number: [M2S090-FCS325I](#)

Manufacturer: [Microsemi](#)

Description: IC FPGA SOC 90K LUTS

Data sheet:  [SmartFusion2 Product Brief](#)  
 [IGL002 FPGA,SmartFusion2 Datasheet](#)

RoHs Status: Contains lead / RoHS non-compliant

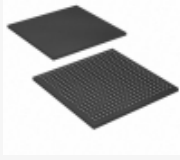
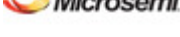
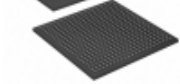
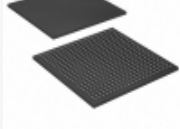
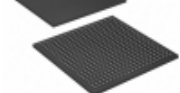
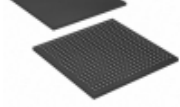
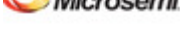
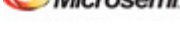
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Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                  |                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                  | M2S090-FCS325I                            | Manufacturer                     | <a href="#">Microsemi</a>                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                  | IC FPGA SOC 90K LUTS                      | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                           | 880 pcs                                   | Data sheet                       | <a href="#">SmartFusion2 Product Brief</a><br><a href="#">IGL002 FPGA,SmartFusion2 Datasheet</a>                 |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">Integrated Circuits (ICs)</a> | Supplier Device Package          | 325-BGA (11x11)                                                                                                  |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                        | 166MHz                                    | Series                           | SmartFusion@2                                                                                                    |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                     | 64KB                                      | Primary Attributes               | FPGA - 90K Logic Modules                                                                                         |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                  | DDR, PCIe, SERDES                         | Packaging                        | Tray                                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                               | 325-TFBGA                                 | Operating Temperature            | -40°C ~ 100°C (TJ)                                                                                               |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                | 180                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                    |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                              | 4 Weeks                                   | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                               |
| Flash Size                                                                                                                                                                                                                                                                                                                                                                                                                                   | 512KB                                     | Detailed Description             | ARM® Cortex®-M3 System On Chip (SOC) IC SmartFusion@2 FPGA - 90K Logic Modules 512KB 64KB 166MHz 325-BGA (11x11) |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                               | ARM® Cortex®-M3                           | Connectivity                     | CANbus, Ethernet, I²C, SPI, UART/USART, USB                                                                      |
| Architecture                                                                                                                                                                                                                                                                                                                                                                                                                                 | MCU, FPGA                                 |                                  |                                                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                          |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------|----------------|
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|  | Part#: <a href="#">M2S090-FG676I</a><br>Description: IC FPGA SOC 90K LUTS 676FBGA      | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">M2S090-1FG676IX417</a><br>Description: IC FPGA SOC 90K LUTS 676FBGA | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S090-FGG484</a><br>Description: IC FPGA SOC 90K LUTS 484FBGA      | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S090-FGG484I</a><br>Description: IC FPGA SOC 90K LUTS 484FBGA     | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S090-FG676</a><br>Description: IC FPGA SOC 90K LUTS 676FBGA       | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S090-1FG484I</a><br>Description: IC FPGA SOC 90K LUTS 484FBGA     | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">M2S090-FG484I</a><br>Description: IC FPGA SOC 90K LUTS 484FBGA      | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">M2S090-1FG676</a><br>Description: IC FPGA SOC 90K LUTS 676FBGA      | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S090-1FGG484I</a><br>Description: IC FPGA SOC 90K LUTS 484FBGA    | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
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| Related keywords for <b>M2S090-FCS325I</b> |                                                    |                                               |                                             |
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|                                            |                                                    | Microsemi Commercial Components Group         | Microsemi Corporation M2S090-FCS325I        |
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