

M2S010-1TQ144I



Part Number: [M2S010-1TQ144I](#)

Manufacturer: [Microsemi](#)

Description: IC FPGA SOC 10K LUTS

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

RoHs Status: Contains lead / RoHS non-compliant

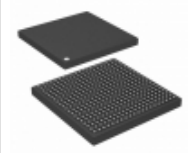
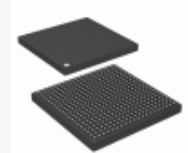
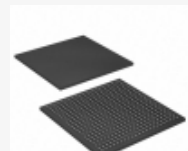
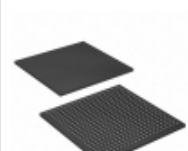
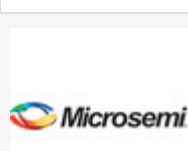
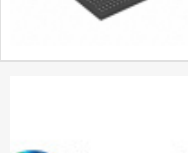
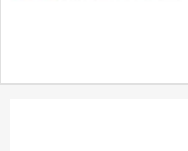
Ship From: Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
Buy M2S010-1TQ144I with confidence from Component-World.HK, 1 Year Warranty

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                   |                                  |                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                   | M2S010-1TQ144I                                                                                                    | Manufacturer                     | <a href="#">Microsemi</a>                                                                                                                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC FPGA SOC 10K LUTS                                                                                              | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                            | 5776 pcs                                                                                                          | Data sheet                       | <a href="#">SmartFusion2 Pin Descriptions</a><br><a href="#">SmartFusion2 Product Brief</a><br><a href="#">IGL002 FPGA,SmartFusion2 Datasheet</a><br><a href="#">SmartFusion2 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>                                                                         | Supplier Device Package          | 144-TQFP (20x20)                                                                                                                                                                            |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                         | 166MHz                                                                                                            | Series                           | SmartFusion®2                                                                                                                                                                               |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                      | 64KB                                                                                                              | Primary Attributes               | FPGA - 10K Logic Modules                                                                                                                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                   | DDR, PCIe, SERDES                                                                                                 | Packaging                        | Tray                                                                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                | 144-LQFP                                                                                                          | Operating Temperature            | -40°C ~ 100°C (TJ)                                                                                                                                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                 | 84                                                                                                                | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                               |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                | Contains lead / RoHS non-compliant                                                                                | Flash Size                       | 256KB                                                                                                                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM® Cortex®-M3 System On Chip (SOC) IC SmartFusion®2 FPGA - 10K Logic Modules 256KB 64KB 166MHz 144-TQFP (20x20) | Core Processor                   | ARM® Cortex®-M3                                                                                                                                                                             |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                  | CANbus, Ethernet, I²C, SPI, UART/USART, USB                                                                       | Architecture                     | MCU, FPGA                                                                                                                                                                                   |
| Component-World.com is a Reliable Stocking Distributor of Electronic Components. We specialize in all Microsemi series electronic components. We have 5776 pieces of Microsemi M2S010-1TQ144I in stock available now. Request a quote from electronics components distributor at Component-World.com, our sales team will contact you within 24 hours.<br>RFQ Email: <a href="mailto:info@Components-World.com">info@Components-World.com</a> |                                                                                                                   |                                  |                                                                                                                                                                                             |

| RELATED PRODUCTS                                                                   |                                                                                      |                                          |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|----------------|
|  | Part#: <a href="#">M2S010-1VFG400</a><br>Description: IC FPGA SOC 10K LUTS 400VFBGA  | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VFG400I</a><br>Description: IC FPGA SOC 10K LUTS 400VFBGA | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1TQ144</a><br>Description: IC FPGA SOC 10K LUTS            | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1FGG484</a><br>Description: IC FPGA SOC 10K LUTS 484FBGA   | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1FG484</a><br>Description: IC FPGA SOC 10K LUTS 484FBGA    | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1FGG484I</a><br>Description: IC FPGA SOC 10K LUTS 484FBGA  | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VF256I</a><br>Description: IC FPGA SOC 10K LUTS           | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S005S-VF400I</a><br>Description: IC FPGA SOC 5K LUTS            | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1TQG144</a><br>Description: IC FPGA SOC 10K LUTS           | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S005S-VFG400I</a><br>Description: IC FPGA SOC 5K LUTS           | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1TQG144I</a><br>Description: IC FPGA SOC 10K LUTS          | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S005S-VFG256I</a><br>Description: IC FPGA SOC 5K LUTS           | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VF400I</a><br>Description: IC FPGA SOC 10K LUTS 400VFBGA  | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VF400</a><br>Description: IC FPGA SOC 10K LUTS 400VFBGA   | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1FG484I</a><br>Description: IC FPGA SOC 10K LUTS 484FBGA   | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S005S-VFG400</a><br>Description: IC FPGA SOC 5K LUTS            | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VFG256</a><br>Description: IC FPGA SOC 10K LUTS           | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VFG256I</a><br>Description: IC FPGA SOC 10K LUTS          | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S010-1VF256</a><br>Description: IC FPGA SOC 10K LUTS            | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |
|  | Part#: <a href="#">M2S005S-VFG256</a><br>Description: IC FPGA SOC 5K LUTS            | Manufacturers: <a href="#">Microsemi</a> | <div>RFQ</div> |

| Related keywords for M2S010-1TQ144I   |                                                    |                                               |                                             |
|---------------------------------------|----------------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Microsemi M2S010-1TQ144I              | M2S010-1TQ144I distributor                         | M2S010-1TQ144I supplier                       | M2S010-1TQ144I price                        |
| M2S010-1TQ144I download datasheet     | M2S010-1TQ144I datasheet                           | M2S010-1TQ144I stock                          | buy M2S010-1TQ144I                          |
| Microsemi M2S010-1TQ144I              | Microsemi Analog Mixed Signal Group M2S010-1TQ144I | Microsemi Analog Mixed Signal Group [MIL]     | Microsemi Consumer Medical Product Group    |
| Microsemi HI-REL [MIL] M2S010-1TQ144I | Microsemi Power Management Group M2S010-1TQ144I    | Microsemi Power Products Group M2S010-1TQ144I | Microsemi SoC M2S010-1TQ144I                |
|                                       |                                                    | Microsemi Commercial Components Group         | Microsemi Corporation M2S010-1TQ144I        |
|                                       |                                                    | M2S010-1TQ144I                                | Microsemi Solutions Sdn Bhd. M2S010-1TQ144I |

