

MCIMX515DJZK8C



Part Number: [MCIMX515DJZK8C](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MPU I.MX51 800MHZ 529BGA

Data sheet:  [i.MX512/3/5 Fact Sheet](#)  
 [i.MX51 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

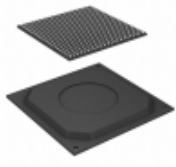
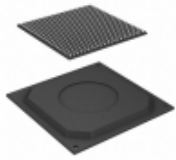
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                   |                                  |                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MCIMX515DJZK8C                                                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MPU I.MX51 800MHZ 529BGA                                                                       | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6043 pcs                                                                                          | Data sheet                       | <a href="#">i.MX512/3/5 Fact Sheet</a><br><a href="#">i.MX51 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                         | Voltage - I/O                    | 1.2V, 1.875V, 2.775V, 3.0V                                                 |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USB 2.0 (3), USB 2.0 + PHY (1)                                                                    | Supplier Device Package          | 529-BGA (19x19)                                                            |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 800MHz                                                                                            | Series                           | i.MX51                                                                     |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC | SATA                             | -                                                                          |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LPDDR, DDR2                                                                                       | Packaging                        | Tray                                                                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 529-LFBGA                                                                                         | Operating Temperature            | -20°C ~ 85°C (TC)                                                          |
| Number of Cores/Bus Width                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 Core, 32-Bit                                                                                    | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                              |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                        | Graphics Acceleration            | Yes                                                                        |
| Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10/100 Mbps (1)                                                                                   | Display & Interface Controllers  | Keypad, LCD                                                                |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-A8 Microprocessor IC i.MX51 1 Core, 32-Bit 800MHz 529-BGA (19x19)                    | Core Processor                   | ARM® Cortex®-A8                                                            |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Multimedia; NEON™ SIMD                                                                            | Base Part Number                 | MCIMX515                                                                   |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART                                                   |                                  |                                                                            |
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|  | Part#: <a href="#">MCIMX534AVV8C</a><br>Description: IC MPU I.MX53 800MHZ 529TEBGA-2   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCIMX515CJM6C</a><br>Description: IC MPU I.MX51 600MHZ 529BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCIMX516AJM6C</a><br>Description: IC MPU I.MX51 600MHZ 529BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCIMX513DJM8CR2</a><br>Description: IC MPU I.MX51 800MHZ 529BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX51EXP</a><br>Description: EXPANSION CARD I.MX51                | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX516AJM6CR2</a><br>Description: I.MX51 32-BIT MPU ARM CORTEX-A8 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX514AJM6C</a><br>Description: IC MPU I.MX51 600MHZ 529BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX51LCD</a><br>Description: DAUGHTER LCD WVGA I.MX51             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX51EVKJ</a><br>Description: KIT EVALUATION I.MX51               | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MCIMX513DJM8C</a><br>Description: IC MPU I.MX51 800MHZ 529BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX515CJM6CR2</a><br>Description: IC MPU I.MX51 600MHZ 529BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX514AJM6CR2</a><br>Description: I.MX51 32-BIT MPU ARM CORTEX-A8 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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