



NXP Semiconductors / Freescale



Image may be representation. See specifications for product details.

MCIMX512DJM8C

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | MCIMX512DJM8C                                                                                                |
| Manufacturer/Brand: | NXP Semiconductors / Freescale                                                                               |
| Product description | IC MPU I.MX51 800MHZ 529BGA                                                                                  |
|                     |  1.MCIMX512DJM8C.pdf        |
|                     |  2.MCIMX512DJM8C.pdf        |
| Datasheets:         |  Lead free / RoHS Compliant |
| RoHs Status         | Hong Kong                                                                                                    |
| Ship From           |                                                                                                              |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

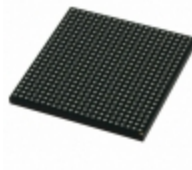
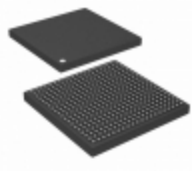
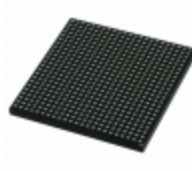
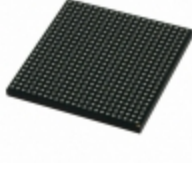
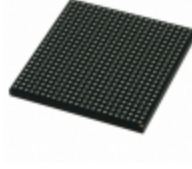
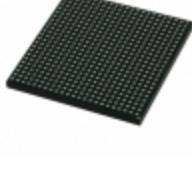
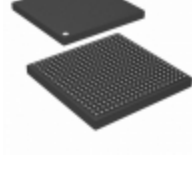
Specifications of MCIMX512DJM8C

|                                  |                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | MCIMX512DJM8C                                                                                                                                                                                                      |
| MANUFACTURER                     | NXP Semiconductors / Freescale                                                                                                                                                                                     |
| DESCRIPTION                      | IC MPU I.MX51 800MHZ 529BGA                                                                                                                                                                                        |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                         |
| DATA SHEET                       |  1.MCIMX512DJM8C.pdf<br> 2.MCIMX512DJM8C.pdf |
| 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                                                                                                                                                                                                          |
| OTHER NAMES                      | 935324331557                                                                                                                                                                                                       |
| OPERATING TEMPERATURE            | -20°C ~ 85°C (TC)                                                                                                                                                                                                  |
| NUMBER OF CORES/BUS WIDTH        | 1 Core, 32-Bit                                                                                                                                                                                                     |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                      |
| MANUFACTURER STANDARD LEAD TIME  | 15 Weeks                                                                                                                                                                                                           |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                         |
| GRAPHICS ACCELERATION            | No                                                                                                                                                                                                                 |
| 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                 | MCIMX512                                                                                                                                                                                                           |
| ADDITIONAL INTERFACES            | 1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART                                                                                                                                                                    |

Related Tags

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| Freescale Semiconductor - NXP MCIMX512DJM8C  | NXP USA Inc. MCIMX512DJM8C              |                                                  |

Related Products

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div></div> <div><b>MCIMX513DJM8C</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 800MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    | <div></div> <div><b>MCIMX50EVK</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: KIT EVALUATION I.MX50<br/>In stock: 2 pcs<br/><div>RFQ</div></div>                   |
| <div></div> <div><b>MCIMX513DJM8CR2</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 800MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>MCIMX512CJM6CR2</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 600MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    |
| <div></div> <div><b>MCIMX508CVM8B</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX50 800MHZ 400MAPBGA<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>MCIMX512DJM8CR2</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 800MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    |
| <div></div> <div><b>MCIMX514AJM6C</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 600MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    | <div></div> <div><b>MCIMX508CZK8B</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX50 800MHZ 416POBGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    |
| <div></div> <div><b>MCIMX513CJM6C</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 600MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>    | <div></div> <div><b>MCIMX512CJM6C</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 600MHZ 529BGA<br/>In stock: 39 pcs<br/><div>RFQ</div></div>         |
| <div></div> <div><b>MCIMX513CJM6CR2</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX51 600MHZ 529BGA<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>MCIMX508CVM8BR2</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX50 800MHZ 400MAPBGA<br/>In stock: Out stock<br/><div>RFQ</div></div> |