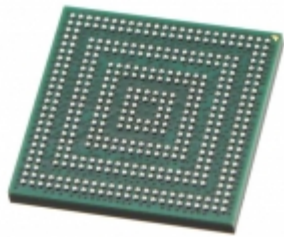


MCIMX502CVK8B



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MCIMX502CVK8B](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MPU I.MX50 800MHZ 416MAPBGA

**Data sheet:**  [iMS50 Family Fact Sheet](#)  
 [MCIMX50 Datasheet](#)

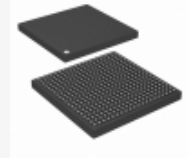
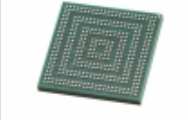
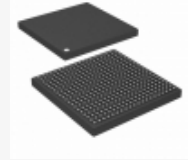
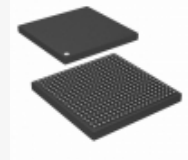
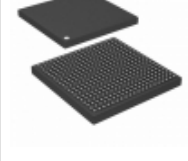
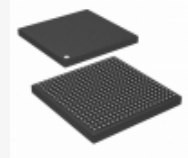
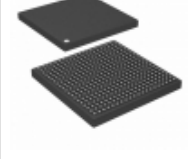
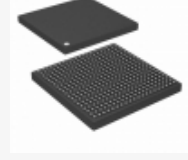
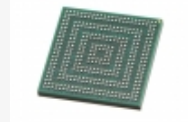
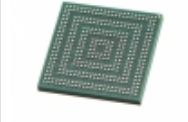
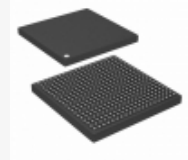
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                  |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MCIMX502CVK8B                                                  | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MPU I.MX50 800MHZ 416MAPBGA                                 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8362 pcs                                                       | Data sheet                       | <a href="#">iMS50 Family Fact Sheet</a><br><a href="#">MCIMX50 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a>                      | Voltage - I/O                    | 1.2V, 1.875V, 2.775V, 3.0V                                                   |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USB 2.0 + PHY (2)                                              | Speed                            | 800MHz                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | i.MX50                                                         | Security Features                | Boot Security, Cryptography, Secure JTAG                                     |
| SATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                              | RAM Controllers                  | LPDDR, LPDDR2, DDR2                                                          |
| Packaging                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tray                                                           | Package / Case                   | 416-LFBGA                                                                    |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 935323228557                                                   | Operating Temperature            | 0°C ~ 70°C (TA)                                                              |
| 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  | LCD                                                                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ARM® Cortex®-A8 Microprocessor IC i.MX50 1 Core, 32-Bit 800MHz | Core Processor                   | ARM® Cortex®-A8                                                              |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Multimedia; NEON™ SIMD                                         | Base Part Number                 | MCIMX502                                                                     |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART                |                                  |                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                               |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MCIMX35WPKD</a><br>Description: KIT DEVELOPMENT I.MX35 WINCE PDK   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX35PDKCPU</a><br>Description: KIT DEV MX35CPU CARD LINUX       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX35WPKDJ</a><br>Description: BOARD DEV FOR I.MX35              | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX502CVM8B</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX503CVK8B</a><br>Description: IC MPU I.MX50 800MHZ 416MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX503EVM8B</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX507CVK8B</a><br>Description: IC MPU I.MX50 800MHZ 416MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX357DVM5B</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX357DJQ5C</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX502EVM8B</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX503CVM8B</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX357DVM5BR2</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX357DJQ5CR2</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX507CVM1B</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX35LPDKJ</a><br>Description: KIT DEVELOPMENT I.MX35J           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX503CVK8BR2</a><br>Description: IC MPU I.MX50 800MHZ 416MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX35LPDK</a><br>Description: KIT DEVELOPMENT I.MX35             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX35PDKCPUJ</a><br>Description: KIT DEV MX35CPU CARD LINUX      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX507CVK8BR2</a><br>Description: IC MPU I.MX50 800MHZ 416MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX503CVM8BR2</a><br>Description: IC MPU I.MX50 800MHZ 400MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

|                                              |                                  |                         |                                             |
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| NXP USA Inc. MCIMX502CVK8B                   |                                  |                         |                                             |