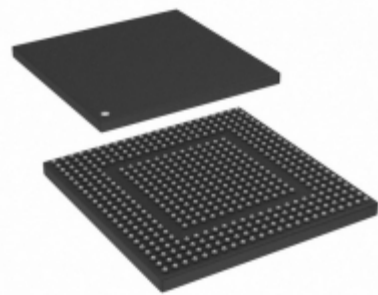


MCIMX31LCVMN4CR2



**Part Number:** [MCIMX31LCVMN4CR2](#)

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

**Description:** IC MPU I.MX31 400MHZ 473MAPBGA

**Data sheet:**  [MCIMX31C/LC](#)

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

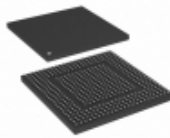
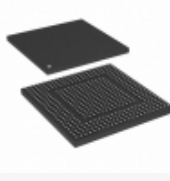
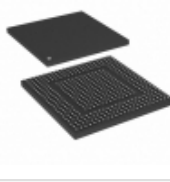
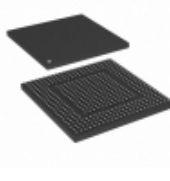
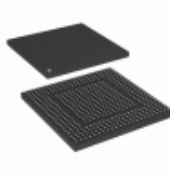
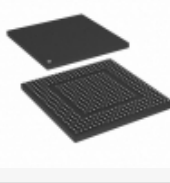
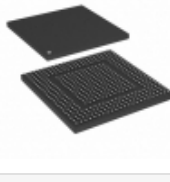
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                |                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MCIMX31LCVMN4CR2                          | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MPU I.MX31 400MHZ 473MAPBGA            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4726 pcs                                  | Data sheet                     | <a href="#">MCIMX31C/LC</a>                                                                                      |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a> | Voltage - I/O                  | 1.8V, 2.0V, 2.5V, 2.7V, 3.0V                                                                                     |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USB 2.0 (3)                               | Speed                          | 400MHz                                                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | i.MX31                                    | Security Features              | Random Number Generator, RTIC, Secure Fusebox, Secure JTAG, Secure Memory                                        |
| SATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                         | RAM Controllers                | DDR                                                                                                              |
| Packaging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tape & Reel (TR)                          | Package / Case                 | 473-LFBGA                                                                                                        |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -40°C ~ 85°C (TA)                         | Number of Cores/Bus Width      | 1 Core, 32-Bit                                                                                                   |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 (Unlimited)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                       |
| Graphics Acceleration                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                       | Ethernet                       | -                                                                                                                |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Keyboard, Keypad, LCD                     | Detailed Description           | ARM1136JF-S Microprocessor IC i.MX31 1 Core, 32-Bit 400MHz                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM1136JF-S                               | Co-Processors/DSP              | Multimedia; GPU, IPU, MPEG-4, VFP                                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MCIMX31                                   | Additional Interfaces          | 1-Wire, AC97, ATA, FIR, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, MSHC, PCMCIA, SDHC, SIM, SPI, SSI, UART |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MCIMX31LDVMN5DR2</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVKN5C</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LDVKN5D</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LITEKITC</a><br>Description: BOARD DEV FOR I.MX31            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31DVKN5D</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31DVMN5D</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LDVMN5D</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVKN5DR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31DVMN5DR2</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LPDK</a><br>Description: KIT DEV I.MX31 FOR LINUX            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVKN5D</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVKN5CR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVMN4D</a><br>Description: IC MPU I.MX31 400MHZ 473MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31CVMN4DR2</a><br>Description: IC MPU I.MX31 400MHZ 473MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVMN4DR2</a><br>Description: IC MPU I.MX31 400MHZ 473MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LCVMN4C</a><br>Description: IC MPU I.MX31 400MHZ 473MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LDVKN5DR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31DVKN5DR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LVKN5</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LITEKIT</a><br>Description: EVAL BOARD FOR 1.MX31 MPV        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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