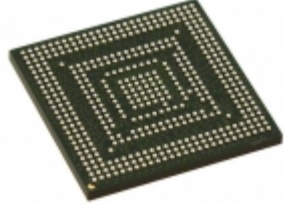


MCIMX31VKN5R2



Images are for reference only.  
See Product Specifications for product details.  
**Buy MCIMX31VKN5R2 with confidence from Component-World.HK, 1 Year Warranty**



**Part Number:** [MCIMX31VKN5R2](#)

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

**Description:** IC MPU I.MX31 532MHZ 457MAPBGA

**Data sheet:**  [MCIMX31/L](#)

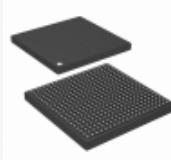
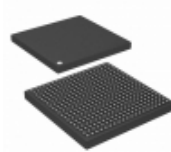
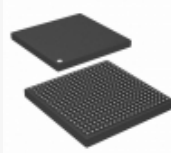
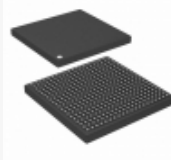
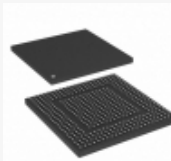
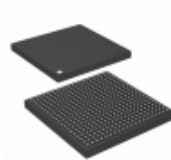
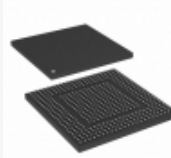
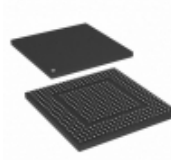
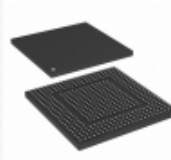
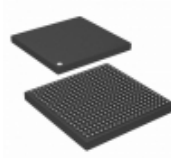
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                |                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MCIMX31VKN5R2                             | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MPU I.MX31 532MHZ 457MAPBGA            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6045 pcs                                  | Data sheet                     | <a href="#">MCIMX31/L</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                          | 532MHz                                                                                                           |
| 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                 | 457-LFBGA                                                                                                        |
| 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                       | -                                                                                                                |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Keyboard, Keypad, LCD                     | Detailed Description           | ARM1136JF-S Microprocessor IC i.MX31 1 Core, 32-Bit 532MHz                                                       |
| 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="#">MCIMX31VKN5B</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX351AVM4B</a><br>Description: IC MPU I.MX35 400MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX351AJQ5C</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX351AVM4BR2</a><br>Description: IC MPU I.MX35 400MHZ 400MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VKN5BR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX353CJQ5C</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VKN5C</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VKN5CR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VKN5</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VMN5C</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX353CVM5B</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VMN5CR2</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VMN5CR2</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31VMN5C</a><br>Description: IC MPU I.MX31 532MHZ 473MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX353CJQ5CR2</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LVKN5R2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LVKN5C</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31WPK</a><br>Description: KIT DEV I.MX31 PDK FOR WINDOWS      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31LVKN5CR2</a><br>Description: IC MPU I.MX31 532MHZ 457MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX353DJQ5C</a><br>Description: IC MPU I.MX35 532MHZ 400MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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