

MCIMX283DVM4BR2



**Part Number:** [MCIMX283DVM4BR2](#)

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

**Description:** IC MPU I.MX28 454MHZ 289MAPBGA

**Data sheet:**  [i.MX28](#)

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

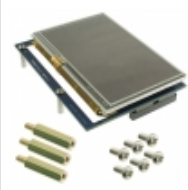
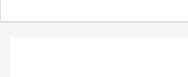
**Ship From:** Hong Kong

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

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See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                |                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                | MCIMX283DVM4BR2                           | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                | IC MPU I.MX28 454MHZ 289MAPBGA            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                         | 11537 pcs                                 | Data sheet                     | <a href="#">i.MX28</a>                                                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">Integrated Circuits (ICs)</a> | Voltage - I/O                  | 1.8V, 3.3V                                                                   |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                        | USB 2.0 + PHY (2)                         | Supplier Device Package        | 289-MAPBGA (14x14)                                                           |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                      | 454MHz                                    | Series                         | i.MX28                                                                       |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                          | Boot Security, Cryptography, Hardware ID  | SATA                           | -                                                                            |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                            | LVDDR, LVDDR2, DDR2                       | Packaging                      | Tape & Reel (TR)                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                             | 289-LFBGA                                 | Other Names                    | 935314285518                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                      | -20°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                                                                                                                                                                                                                                                                                                                                                                                                                      | No                                        | Ethernet                       | 10/100 Mbps (1)                                                              |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                            | Keyboard, LCD, Touchscreen                | Detailed Description           | ARM926EJ-S Microprocessor IC i.MX28 1 Core, 32-Bit 454MHz 289-MAPBGA (14x14) |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                             | ARM926EJ-S                                | Co-Processors/DSP              | Data; DCP                                                                    |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                           | MCIMX283                                  | Additional Interfaces          | I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, SSP, UART    |
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|  | Part#: <a href="#">MCIMX285AVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCIMX280DVM4BR</a><br>Description: I.MX28 32-BIT MPU ARM926EJ-S CO | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MCIMX287CVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX286CVM4BR2</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX286DVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX286DVM4BR</a><br>Description: I.MX28 32-BIT MPU ARM926EJ-S CO | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX31ADSE</a><br>Description: KIT DEV ADS I.MX31                 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX283DJM4A</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX286CVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX28EVK</a><br>Description: EVAL KIT FOR I.MX28                 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX283CVM4BR2</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX280CVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX281AVM4B</a><br>Description: IC MPU I.MX28 454MHZ 289MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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