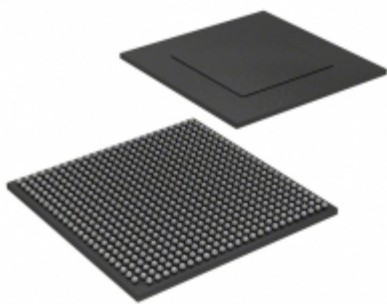


MCIMX6D6AVT10ACR



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MCIMX6D6AVT10ACR](#)

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

**Description:** IC MPU I.MX6D 1.0GHZ 624FCBGA

**Data sheet:** [i.MX 6 Series Fact Sheet](#)  
[MCIMX6\(D,Q\)YyyyC Datasheet](#)  
[i.MX 6Dual/6Quad Chip Errata](#)  
[iMX6D Ref Manual](#)

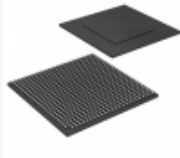
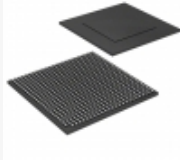
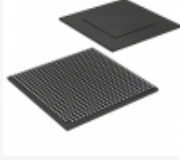
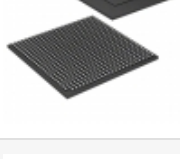
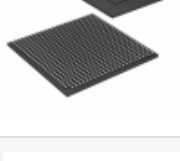
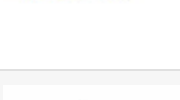
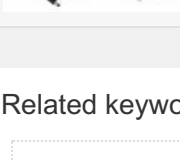
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

[Request For Quotation](#)

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     |                                |                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MCIMX6D6AVT10ACR                                                                                                    | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MPU I.MX6D 1.0GHZ 624FCBGA                                                                                       | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2128 pcs                                                                                                            | Data sheet                     | <a href="#">i.MX 6 Series Fact Sheet</a><br><a href="#">MCIMX6(D,Q)YyyyC Datasheet</a><br><a href="#">i.MX 6Dual/6Quad Chip Errata</a><br><a href="#">iMX6D Ref Manual</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                                                           | Voltage - I/O                  | 1.8V, 2.5V, 2.8V, 3.3V                                                                                                                                                     |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USB 2.0 + PHY (4)                                                                                                   | Supplier Device Package        | 624-FCBGA (21x21)                                                                                                                                                          |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.0GHz                                                                                                              | Series                         | i.MX6D                                                                                                                                                                     |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection | SATA                           | SATA 3Gbps (1)                                                                                                                                                             |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LPDDR2, LVDDR3, DDR3                                                                                                | Packaging                      | Tape & Reel (TR)                                                                                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 624-FBGA, FCBGA                                                                                                     | Other Names                    | 935314739518                                                                                                                                                               |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -40°C ~ 125°C (TJ)                                                                                                  | Number of Cores/Bus Width      | 2 Core, 32-Bit                                                                                                                                                             |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 (168 Hours)                                                                                                       | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                 |
| Graphics Acceleration                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                                                                                                 | Ethernet                       | 10/100/1000 Mbps (1)                                                                                                                                                       |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Keypad, LCD                                                                                                         | Detailed Description           | ARM® Cortex®-A9 Microprocessor IC i.MX6D 2 Core, 32-Bit 1.0GHz 624-FCBGA (21x21)                                                                                           |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-A9                                                                                                     | Co-Processors/DSP              | Multimedia; NEON™ SIMD                                                                                                                                                     |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MCIMX6                                                                                                              | Additional Interfaces          | CAN, I²C, I²S, MMC/SD/SDIO, SAI, SPI, SSI, UART                                                                                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MCIMX6D6AVT08AER</a><br>Description: I.MX6D ROM PERF ENHAN           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT08ACR</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D7CZK08AD</a><br>Description: I.MX 6 SERIES 32-BIT MPU QUAD A  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT08ADR</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D5EZK08AE</a><br>Description: I.MX6D POP ARIK-D POP RO         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D7CVT08AD</a><br>Description: IC MPU I.MX6D 800MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT10AD</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D5EZK08AD</a><br>Description: I.MX 6 SERIES 32-BIT MPU DUAL A  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT10ADR</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D7CZK08AE</a><br>Description: ARIK-Q POP ROM PERF ENHA         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D7CVT08AC</a><br>Description: IC MPU I.MX6D 800MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT08AC</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT08AE</a><br>Description: I.MX6D ROM PERF ENHAN            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT10AE</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT08AD</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT10AC</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D6AVT10AER</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D5EYM12CE</a><br>Description: I.MX6DQ 1ROM PERF ENHAN          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6D7CVT08AE</a><br>Description: I.MX6D ROM PERF ENHAN            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MCIMX6DL-SDB</a><br>Description: KIT EVAL SABRE FOR I.MX6DL REV B    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

|                                       |                                     |                                     |                               |
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