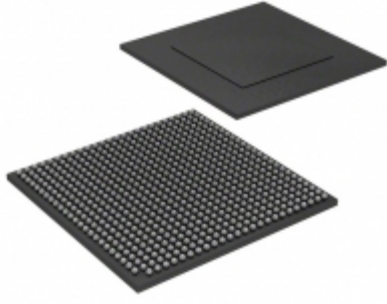


MCIMX6D4AVT10ADR



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** MCIMX6D4AVT10ADR

**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

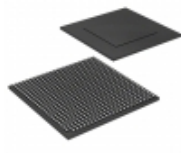
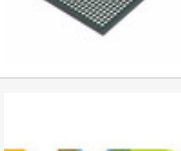
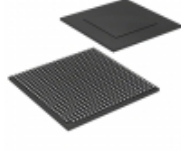
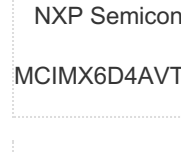
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     |                                |                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MCIMX6D4AVT10ADR                                                                                                    | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2104 pcs                                                                                                            | Data sheet                     | <a href="#">I.MX 6 Series Fact Sheet</a><br><a href="#">MCIMX6(D,Q)YAvvvyC 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                    | 935318005518                                                                                                                                                                 |
| 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                                                                                                                                                       |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CAN, I²C, I²S, MMC/SD/SDIO, SAI, SPI, SSI, UART                                                                     |                                |                                                                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MCIMX6D5EYM10ADR</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT10ACR</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10AER</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08ACR</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08AE</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10AD</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08AER</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10CE</a><br>Description: I.MX6DQ ROM PERF ENHAN           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08ADR</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08AC</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT10AE</a><br>Description: I.MX6D ROM PERF ENHAN            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10AE</a><br>Description: IC MPU I.MX6D ENHANCED 624FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT10AER</a><br>Description: I.MX6D ROM PERF ENHAN           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX53SMD</a><br>Description: TABLET SABRE PLATFORM MCIMX53         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10AC</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM12AC</a><br>Description: I.MX 6 SERIES 32-BIT MPU ARM CO  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D5EYM10ACR</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT08AD</a><br>Description: IC MPU I.MX6D 852MHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT10AC</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6D4AVT10AD</a><br>Description: IC MPU I.MX6D 1.0GHZ 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

|                                       |                                |                                     |                               |
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|                                       | MCIMX6D4AVT10ADR               | Freescale Semiconductor - NXP       | NXP USA Inc. MCIMX6D4AVT10ADR |
|                                       |                                | MCIMX6D4AVT10ADR                    |                               |

