

MCIMX6S1AVM08AB



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Part Number: MCIMX6S1AVM08AB

Manufacturer: NXP Semiconductors / Freescale

Description: IC MPU I.MX6S 800MHZ 624MAPBGA

Data sheet:  [MCIMX6\(S,U\)yAyyyyyB](#)  
 [I.MX 6 Series Fact Sheet](#)  
 [i.MX 6Solo/6DualLite](#)  
 [i.MX 6Solo/6DualLite Errata](#)

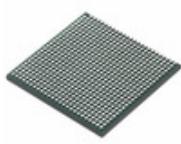
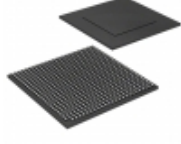
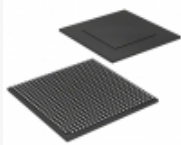
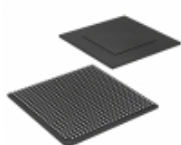
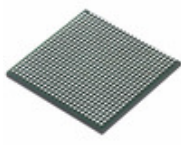
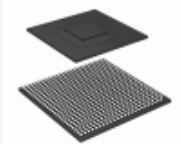
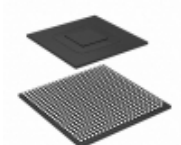
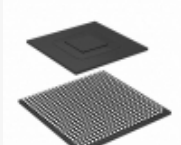
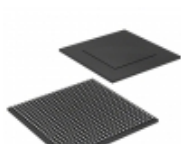
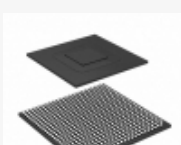
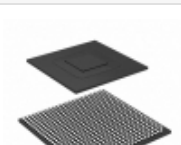
RoHs Status: Lead free / RoHS Compliant

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     |                                |                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | MCIMX6S1AVM08AB                                                                                                     | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MPU I.MX6S 800MHZ 624MAPBGA                                                                                      | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 4464 pcs                                                                                                            | Data sheet                     | <a href="#">MCIMX6(S,U)yAyyyyyB</a><br><a href="#">I.MX 6 Series Fact Sheet</a><br><a href="#">i.MX 6Solo/6DualLite</a><br><a href="#">i.MX 6Solo/6DualLite Errata</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-MAPBGA (21x21)                                                                                                                                                     |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                     | 800MHz                                                                                                              | Series                         | i.MX6S                                                                                                                                                                 |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                         | ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection | SATA                           | -                                                                                                                                                                      |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                           | LPDDR2, LVDDR3, DDR3                                                                                                | Packaging                      | Tray                                                                                                                                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                            | 624-LFBGA                                                                                                           | Other Names                    | 935319989557                                                                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                     | -40°C ~ 125°C (TJ)                                                                                                  | 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                       | 10/100/1000 Mbps (1)                                                                                                                                                   |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                           | Keypad, LCD                                                                                                         | Detailed Description           | ARM® Cortex®-A9 Microprocessor IC i.MX6S 1 Core, 32-Bit 800MHz 624-MAPBGA (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="#">MCIMX6QP7CVT8AB</a><br>Description: IC MPU I.MX6QP ENHAN 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM10AD</a><br>Description: I.MX 6S ROM PERF ENHAN           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP7CVT8AA</a><br>Description: IC MPU I.MX6QP 800MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP5EYM1AA</a><br>Description: IC MPU I.MX6QP 1GHZ 624FCBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP6AVT8AA</a><br>Description: IC MPU I.MX6QP 852MHZ 624FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM10AC</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="#">MCIMX6QP5EYM1AB</a><br>Description: IC MPU I.MX6QP ENHAN 624FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP6AVT1AB</a><br>Description: I.MX 6QP ROM PERF ENHAN          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP6AVT1AAR</a><br>Description: I.MX 6 SERIES 32-BIT MPU QUAD A | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM08ADR</a><br>Description: I.MX6 SOLO MAPBGA 800 MHZ       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP6AVT8AB</a><br>Description: I.MX 6QP ROM PERF ENHAN          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S4AVM08ABR</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM08ACR</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S4AVM08AC</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP6AVT1AA</a><br>Description: IC MPU I.MX6QP 1GHZ 624FCBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM08AC</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S4AVM08AB</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM08ABR</a><br>Description: IC MPU I.MX6S 800MHZ 624MAPBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6S1AVM08AD</a><br>Description: I.MX6 SOLO MAPBGA 800 MHZ        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MCIMX6QP5EVT2AB</a><br>Description: I.MX 6QP ROM PERF ENHAN          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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