

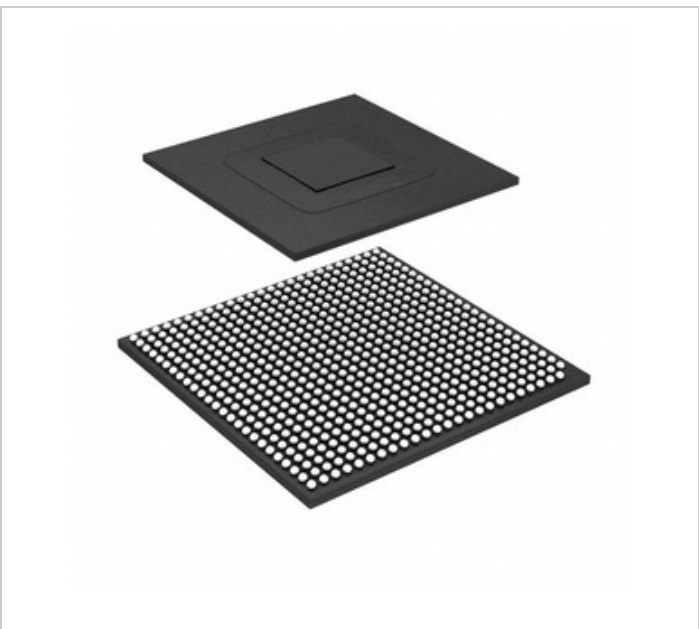


Image may be representation. See specifications for product details.

### MCIMX6S1AVM08AB

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number:        | MCIMX6S1AVM08AB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Manufacturer/Brand: | NXP Semiconductors / Freescale                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product description | IC MPU I.MX6S 800MHZ 624MAPBGA <div> 1.MCIMX6S1AVM08AB.pdf</div> <div> 2.MCIMX6S1AVM08AB.pdf</div> <div> 3.MCIMX6S1AVM08AB.pdf</div> <div> 4.MCIMX6S1AVM08AB.pdf</div> |
| Datasheets:         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RoHs Status         |  Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                               |
| Ship From           | Hong Kong                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

REQUEST FOR QUOTATION

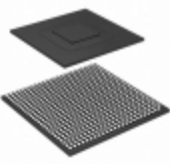
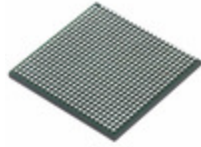
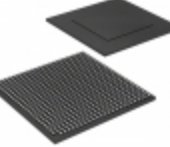
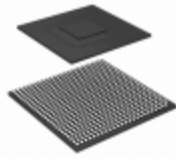
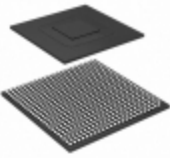
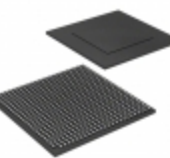
#### Specifications of MCIMX6S1AVM08AB

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | MCIMX6S1AVM08AB                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MANUFACTURER                     | NXP Semiconductors / Freescale                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DESCRIPTION                      | IC MPU I.MX6S 800MHZ 624MAPBGA                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DATA SHEET                       | <div> 1.MCIMX6S1AVM08AB.pdf</div> <div> 2.MCIMX6S1AVM08AB.pdf</div> <div> 3.MCIMX6S1AVM08AB.pdf</div> <div> 4.MCIMX6S1AVM08AB.pdf</div> |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### Related Tags

|                                                |                                         |                                                    |
|------------------------------------------------|-----------------------------------------|----------------------------------------------------|
| NXP Semiconductors / Freescale MCIMX6S1AVM08AB | MCIMX6S1AVM08AB Distributor             | MCIMX6S1AVM08AB Supplier                           |
| MCIMX6S1AVM08AB Price                          | MCIMX6S1AVM08AB Pictures                | MCIMX6S1AVM08AB Image                              |
| MCIMX6S1AVM08AB PDF Datasheet                  | MCIMX6S1AVM08AB Download Datasheet      | MCIMX6S1AVM08AB Datasheet                          |
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| NXP Semiconductors / Freescale MCIMX6S1AVM08AB | NXP Semiconductors / Freescale Supplier | NXP Semiconductors / Freescale Distributor         |
| NXP Semiconductors / Freescale MCIMX6S1AVM08AB | NXP Semiconductors MCIMX6S1AVM08AB      | Freescale MCIMX6S1AVM08AB                          |
| Freescale Semiconductor - NXP MCIMX6S1AVM08AB  | NXP USA Inc. MCIMX6S1AVM08AB            |                                                    |

#### Related Products

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| <div></div> <div><b>MCIMX6QP6AVT1AAR</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX 6 SERIES 32-BIT MPU QUAD A<br/>In stock: Out stock</div> <div>RFQ</div> | <div></div> <div><b>MCIMX6S1AVM08ABR</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6S 800MHZ 624MAPBGA<br/>In stock: Out stock</div> <div>RFQ</div> |
| <div></div> <div><b>MCIMX6QP7CVT8AB</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6QP ENHAN 624FCBGA<br/>In stock: 59 pcs</div> <div>RFQ</div>       | <div></div> <div><b>MCIMX6QP7CVT8AA</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6QP 800MHZ 624FCBGA<br/>In stock: 510 pcs</div> <div>RFQ</div>    |
| <div></div> <div><b>MCIMX6S1AVM08ACR</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6S 800MHZ 624MAPBGA<br/>In stock: Out stock</div> <div>RFQ</div>  | <div></div> <div><b>MCIMX6S1AVM08AC</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6S 800MHZ 624MAPBGA<br/>In stock: 60 pcs</div> <div>RFQ</div>     |
| <div></div> <div><b>MCIMX6S1AVM10AC</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX 6 SERIES 32-BIT MPU ARM CO<br/>In stock: Out stock</div> <div>RFQ</div>  | <div></div> <div><b>MCIMX6QP6AVT8AB</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX 6QP ROM PERF ENHAN<br/>In stock: Out stock</div> <div>RFQ</div>         |
| <div></div> <div><b>MCIMX6S1AVM08ADR</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX6 SOLO MAPBGA 800 MHZ<br/>In stock: Out stock</div> <div>RFQ</div>       | <div></div> <div><b>MCIMX6S1AVM08AD</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX6 SOLO MAPBGA 800 MHZ<br/>In stock: Out stock</div> <div>RFQ</div>       |
| <div></div> <div><b>MCIMX6QP6AVT1AB</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: I.MX 6QP ROM PERF ENHAN<br/>In stock: Out stock</div> <div>RFQ</div>          | <div></div> <div><b>MCIMX6QP6AVT8AA</b><br/>Manufacturers: NXP Semiconductors / Freescale<br/>Description: IC MPU I.MX6QP 852MHZ 624FCBGA<br/>In stock: 60 pcs</div> <div>RFQ</div>     |