

MPC8378ECVRAGD



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See Product Specifications for product details.  
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**Part Number:** [MPC8378ECVRAGD](#)

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

**Description:** IC MPU MPC83XX 400MHZ 689TEBGA

**Data sheet:**  [eSDHC Data Timeout Errata](#)  
 [MPC837x PowerQUICC® II Pro Brochure](#)  
 [SATA-A-006187 Errata](#)  
 [SATA-A005255 Errata](#)  
 [TBI Link Status Errata](#)  
 [USB Errata](#)

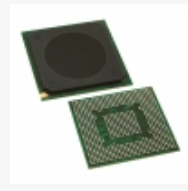
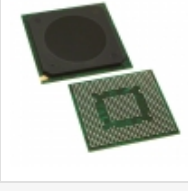
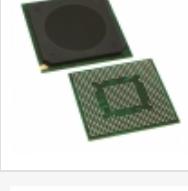
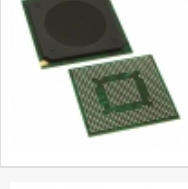
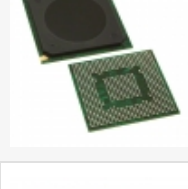
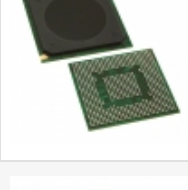
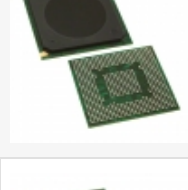
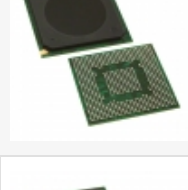
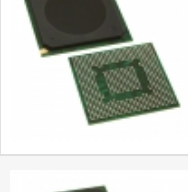
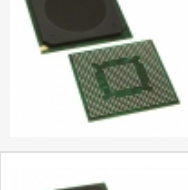
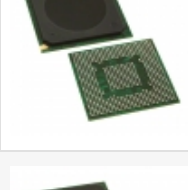
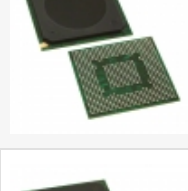
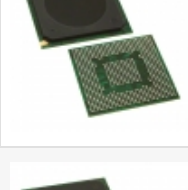
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                                  |                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                              | MPC8378ECVRAGD                                                                        | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MPU MPC83XX 400MHZ 689TEBGA                                                        | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                       | 5616 pcs                                                                              | Data sheet                       | <a href="#">eSDHC Data Timeout Errata</a><br><a href="#">MPC837x PowerQUICC® II Pro Brochure</a><br><a href="#">SATA-A-006187 Errata</a><br><a href="#">SATA-A005255 Errata</a><br><a href="#">TBI Link Status Errata</a><br><a href="#">USB Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                             | Voltage - I/O                    | 1.8V, 2.5V, 3.3V                                                                                                                                                                                                                                        |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                      | USB 2.0 + PHY (1)                                                                     | Supplier Device Package          | 689-TEPBGA II (31x31)                                                                                                                                                                                                                                   |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                    | 400MHz                                                                                | Series                           | MPC83xx                                                                                                                                                                                                                                                 |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                        | Cryptography, Random Number Generator                                                 | SATA                             | -                                                                                                                                                                                                                                                       |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                          | DDR, DDR2                                                                             | Packaging                        | Tray                                                                                                                                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                           | 689-BBGA Exposed Pad                                                                  | Operating Temperature            | -40°C ~ 125°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                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10/100/1000 Mbps (2)                                                                  | Display & Interface Controllers  | -                                                                                                                                                                                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                     | PowerPC e300c4s Microprocessor IC MPC83xx 1 Core, 32-Bit 400MHz 689-TEPBGA II (31x31) | Core Processor                   | PowerPC e300c4s                                                                                                                                                                                                                                         |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                        | Security; SEC 3.0                                                                     | Base Part Number                 | MPC8378                                                                                                                                                                                                                                                 |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                    | DUART, I²C, MMC/SD, PCI, SPI                                                          |                                  |                                                                                                                                                                                                                                                         |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                               |                |
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|  | Part#: <a href="#">MPC8378ECVRALG</a><br>Description: IC MPU MPC83XX 667MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8378CVRANG</a><br>Description: IC MPU MPC83XX 800MHZ 689TEBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8378ECVRALGA</a><br>Description: IC MPU MPC83XX 667MHZ 689TEBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8378ECVRAJF</a><br>Description: IC MPU MPC83XX 533MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8377VRANG</a><br>Description: IC MPU MPC83XX 800MHZ 689TEBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MPC8378CVRALGA</a><br>Description: IC MPU MPC83XX 667MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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