

MPC8314CVRADDA



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**Part Number:** [MPC8314CVRADDA](#)

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

**Description:** IC MPU MPC83XX 266MHZ 620BGA

**Data sheet:**  [SATA-A-006187 Errata](#)  
 [MPC8314E PowerQUICC](#)  
 [SATA-A005255 Errata](#)  
 [TBI Link Status Errata](#)  
 [USB Errata](#)

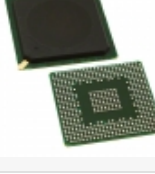
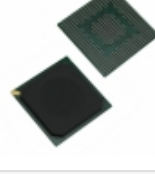
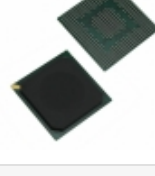
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                 |                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MPC8314CVRADDA                                                                  | Manufacturer                    | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MPU MPC83XX 266MHZ 620BGA                                                    | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4117 pcs                                                                        | Data sheet                      | <a href="#">SATA-A-006187 Errata</a><br><a href="#">MPC8314E PowerQUICC</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         | 620-PBGA (29x29)                                                                                                                                                                           |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 266MHz                                                                          | Series                          | MPC83xx                                                                                                                                                                                    |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                               | SATA                            | -                                                                                                                                                                                          |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DDR, DDR2                                                                       | Packaging                       | Tray                                                                                                                                                                                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 620-BBGA Exposed Pad                                                            | Other Names                     | 935313934557                                                                                                                                                                               |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 105°C (TA)                                                              | Number of Cores/Bus Width       | 1 Core, 32-Bit                                                                                                                                                                             |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                                                   | Manufacturer Standard Lead Time | 10 Weeks                                                                                                                                                                                   |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                      | Graphics Acceleration           | No                                                                                                                                                                                         |
| Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10/100/1000 Mbps (2)                                                            | Display & Interface Controllers | -                                                                                                                                                                                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PowerPC e300c3 Microprocessor IC MPC83xx 1 Core, 32-Bit 266MHz 620-PBGA (29x29) | Core Processor                  | PowerPC e300c3                                                                                                                                                                             |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                               | Base Part Number                | MPC8314                                                                                                                                                                                    |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DUART, HSSI, I <sup>2</sup> C, PCI, SPI, TDM                                    |                                 |                                                                                                                                                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                               |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">MPC8314CVRAGDA</a><br>Description: IC MPU MPC83XX 400MHZ 620BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8314EVRAGDA</a><br>Description: IC MPU MPC83XX 400MHZ 620BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313VRAFF</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ZQAFF</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MPC8314ECVRAFDA</a><br>Description: IC MPU MPC83XX 333MHZ 620BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ZQAGDC</a><br>Description: IC MPU MPC83XX 400MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ZQADDC</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313VRAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8314ECVRADDA</a><br>Description: IC MPU MPC83XX 266MHZ 620BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313VRAGDB</a><br>Description: IC MPU MPC83XX 400MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ZQAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MPC8314VRAFDA</a><br>Description: IC MPU MPC83XX 333MHZ 620BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ZQADD</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|                                            |                                   |                                   |                             |
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