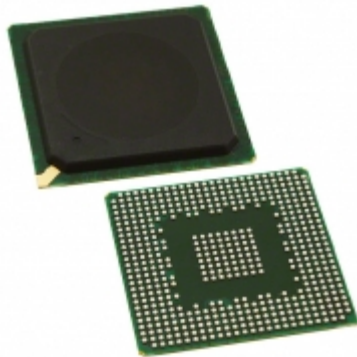


PPC8313CVRAGDC



Part Number: [PPC8313CVRAGDC](#)

Manufacturer [NXP Semiconductors / Freescale](#)

Description [IC MPU MPC83XX 400MHZ 516BGA](#)

Data sheet:

RoHs Status: [Lead free / RoHS Compliant](#)

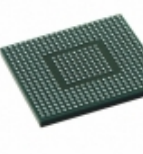
Ship From: [Hong Kong](#)

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                                  |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PPC8313CVRAGDC                                                                    | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MPU MPC83XX 400MHZ 516BGA                                                      | Lead Free Status / RoHS Status   | <a href="#">Lead free / RoHS Compliant</a>     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4543 pcs                                                                          | Data sheet                       |                                                |
| 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          | 516-TEPBGA (27x27)                             |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 400MHz                                                                            | Series                           | MPC83xx                                        |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                                 | SATA                             | -                                              |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DDR, DDR2                                                                         | Packaging                        | Bulk                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 516-BBGA Exposed Pad                                                              | Operating Temperature            | -40°C ~ 105°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 e300c3 Microprocessor IC MPC83xx 1 Core, 32-Bit 400MHz 516-TEPBGA (27x27) | Core Processor                   | PowerPC e300c3                                 |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                                                                                 | Base Part Number                 | PC8313                                         |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DUART, HSSI, I <sup>2</sup> C, PCI, SPI                                           |                                  |                                                |
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| RELATED PRODUCTS                                                                   |                                                                                                       |                                                               |                     |
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|  | Part#: <a href="#">PPC8535CVTATH</a><br>Description: <a href="#">IC MPU MPC85XX 1.25GHZ 783FCBGA</a>  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8313ECVRAGDC</a><br>Description: <a href="#">IC MPU MPC83XX 400MHZ 516BGA</a>   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8306SVMADDCA</a><br>Description: <a href="#">IC MPU MPC83XX 266MHZ 369BGA</a>   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8306SCVMADDCA</a><br>Description: <a href="#">IC MPU MPC83XX 266MHZ 369BGA</a>  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8313VRAGDC</a><br>Description: <a href="#">IC MPU MPC83XX 400MHZ 516BGA</a>     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8535ECVTATH</a><br>Description: <a href="#">IC MPU MPC85XX 1.25GHZ 783FCBGA</a> | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8313EVRAGDC</a><br>Description: <a href="#">IC MPU MPC83XX 400MHZ 516BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8309VMADDCA</a><br>Description: <a href="#">IC MPU MPC83XX 266MHZ 369BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8544EVTANG</a><br>Description: <a href="#">EVAL MPC8544 783FCBGA</a>            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8535AVTATH</a><br>Description: <a href="#">IC MPU MPC85XX 1.25GHZ 783FCBGA</a>  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8306SVMABDCA</a><br>Description: <a href="#">IC MPU MPC83XX 133MHZ 369BGA</a>   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8536EAVTAQG</a><br>Description: <a href="#">IC MPU MPC85XX 1.0GHZ 783FCBGA</a>  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8306VMABDCA</a><br>Description: <a href="#">IC MPU MPC83XX 133MHZ 369BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8536EAVTATH</a><br>Description: <a href="#">IC MPU MPC85XX 1.25GHZ 783FCBGA</a> | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8309CVMAFDCA</a><br>Description: <a href="#">IC MPU MPC83XX 333MHZ 369BGA</a>   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8306VMADDCA</a><br>Description: <a href="#">IC MPU MPC83XX 266MHZ 369BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8309VMAGDCA</a><br>Description: <a href="#">IC MPU MPC83XX 400MHZ 489BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8309VMAFDCA</a><br>Description: <a href="#">IC MPU MPC83XX 333MHZ 369BGA</a>    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PPC8535EAVTATH</a><br>Description: <a href="#">IC MPU MPC85XX 1.25GHZ 783FCBGA</a> | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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