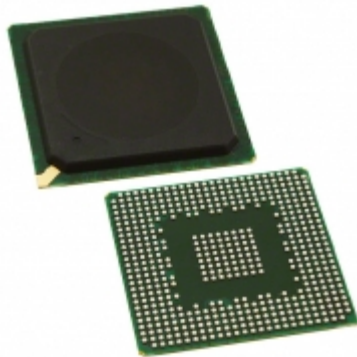


MPC8313ECVRAGDB



Images are for reference only.  
See Product Specifications for product details.  
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Part Number:

MPC8313ECVRAGDB

Manufacturer:

NXP Semiconductors / Freescale

Description:

IC MPU MPC83XX 400MHZ 516BGA

Data sheet:

MCP8313E-RDB User Guide

TBI Link Status Errata

MPC8313E Hrdw Specifications

MPC8313E-RDB Fact Sheet

RoHs Status:

Lead free / RoHS Compliant

Ship From:

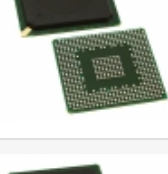
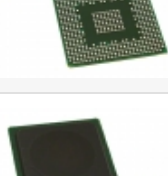
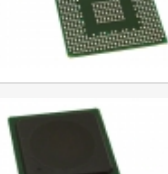
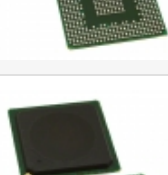
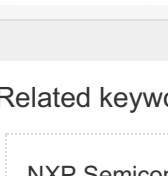
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   |                                  |                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | MPC8313ECVRAGDB                                                                   | Manufacturer                     | NXP Semiconductors / Freescale                                                                                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MPU MPC83XX 400MHZ 516BGA                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 4161 pcs                                                                          | Data sheet                       | <a href="#">MCP8313E-RDB User Guide</a><br><a href="#">TBI Link Status Errata</a><br><a href="#">MPC8313E Hrdw Specifications</a><br><a href="#">MPC8313E-RDB Fact Sheet</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          | 516-TEPBGA (27x27)                                                                                                                                                           |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                     | 400MHz                                                                            | Series                           | MPC83xx                                                                                                                                                                      |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                         | Cryptography                                                                      | SATA                             | -                                                                                                                                                                            |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                           | DDR, DDR2                                                                         | Packaging                        | Tray                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                         | Security; SEC 2.2                                                                 | Base Part Number                 | MPC8313                                                                                                                                                                      |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                     | DUART, HSSI, I²C, PCI, SPI                                                        |                                  |                                                                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                               |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">MPC8313ECVRAFF</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQAGDC</a><br>Description: IC MPU MPC83XX 400MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313EVRAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECVRADDC</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQAFFC</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECVRAFFC</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQADDC</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313E-RDB</a><br>Description: BOARD PROCESSOR                 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECVRAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313E-RDBB</a><br>Description: BOARD CPU 8313E VER 2.1        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313CZQAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQADD</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQAFFB</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313EVRAFF</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313E-RDBC</a><br>Description: BOARD CPU 8313E VER 2.2        | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313CZQAGDC</a><br>Description: IC MPU MPC83XX 400MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECVRADDB</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQADDB</a><br>Description: IC MPU MPC83XX 267MHZ 516BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8313ECZQAFF</a><br>Description: IC MPU MPC83XX 333MHZ 516BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

|                                      |                                    |                                    |                              |
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