

KMPC8321EZQAFDC



**Part Number:** [KMPC8321EZQAFDC](#)

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

**Description:** IC MPU MPC83XX 333MHZ 516BGA

**Data sheet:**  [MPC8323E](#)

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

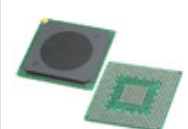
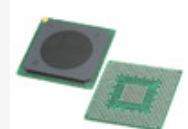
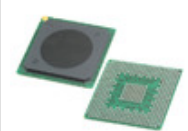
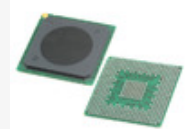
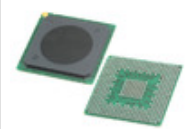
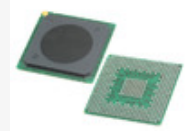
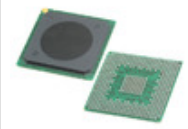
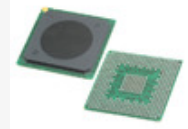
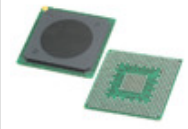
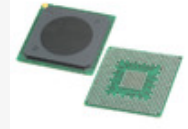
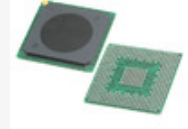
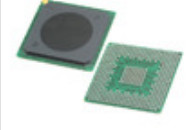
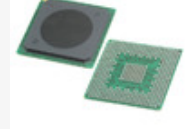
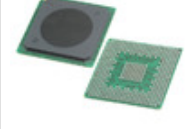
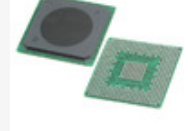
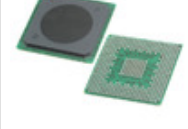
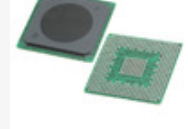
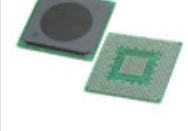
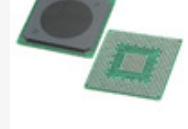
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                                  |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | KMPC8321EZQAFDC                                                                  | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MPU MPC83XX 333MHZ 516BGA                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 5963 pcs                                                                         | Data sheet                       | <a href="#">MPC8323E</a>                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                        | Voltage - I/O                    | 1.8V, 2.5V, 3.3V                               |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                       | USB 2.0 (1)                                                                      | Supplier Device Package          | 516-FPBGA (27x27)                              |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                     | 333MHz                                                                           | Series                           | MPC83xx                                        |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                         | Cryptography                                                                     | SATA                             | -                                              |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                           | DDR, DDR2                                                                        | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                            | 516-BBGA                                                                         | Operating Temperature            | 0°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 Mbps (3)                                                                  | Display & Interface Controllers  | -                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                      | PowerPC e300c2 Microprocessor IC MPC83xx 1 Core, 32-Bit 333MHz 516-FPBGA (27x27) | Core Processor                   | PowerPC e300c2                                 |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                         | Communications; QUICC Engine, Security; SEC 2.2                                  | Base Part Number                 | MPC8321                                        |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                     | DUART, I <sup>2</sup> C, PCI, SPI, TDM, UART                                     |                                  |                                                |
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