

MPC8272CVRPIEA



Part Number: [MPC8272CVRPIEA](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MPU MPC82XX 300MHZ 516BGA

Data sheet:  [MPC8272 Fact Sheet](#)  
 [MPC8272 PowerQUICC II Family](#)

RoHS Status: Lead free / RoHS Compliant

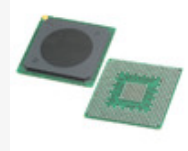
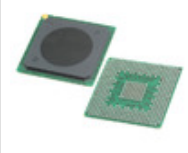
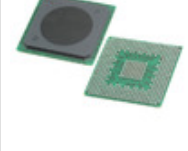
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                  |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MPC8272CVRPIEA                                                                  | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MPU MPC82XX 300MHZ 516BGA                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5927 pcs                                                                        | Data sheet                       | <a href="#">MPC8272 Fact Sheet</a><br><a href="#">MPC8272 PowerQUICC II Family</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                       | Voltage - I/O                    | 3.3V                                                                               |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USB 2.0 (1)                                                                     | Supplier Device Package          | 516-FPBGA (27x27)                                                                  |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 300MHz                                                                          | Series                           | MPC82xx                                                                            |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cryptography, Random Number Generator                                           | SATA                             | -                                                                                  |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DRAM, SDRAM                                                                     | Packaging                        | Tray                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 516-BBGA                                                                        | 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 Mbps (2)                                                                 | Display & Interface Controllers  | -                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PowerPC G2_LE Microprocessor IC MPC82xx 1 Core, 32-Bit 300MHz 516-FPBGA (27x27) | Core Processor                   | PowerPC G2_LE                                                                      |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Communications; RISC CPM, Security; SEC                                         | Base Part Number                 | MPC8272                                                                            |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I <sup>2</sup> C, SCC, SMC, SPI, UART, USART                                    |                                  |                                                                                    |
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