

P1022PSE2HFA



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See Product Specifications for product details.  
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**Part Number:** [P1022PSE2HFA](#)

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

**Description:** IC MPU Q OR IQ 1.067GHZ 689TBGA

**Data sheet:**  [P1022DS](#)  
 [P1020, 1021, and P1022 Designing](#)  
 [P1013/P1022 Fact Sheet](#)

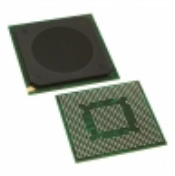
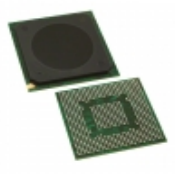
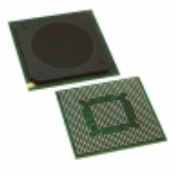
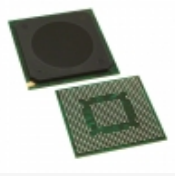
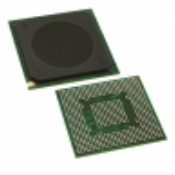
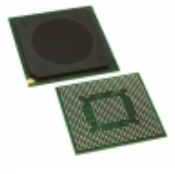
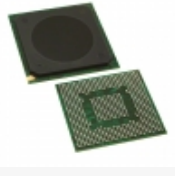
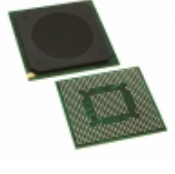
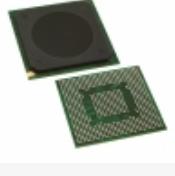
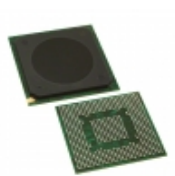
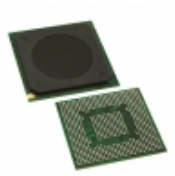
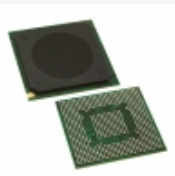
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                         |                                  |                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P1022PSE2HFA                                                                            | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MPU Q OR IQ 1.067GHZ 689TBGA                                                         | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5119 pcs                                                                                | Data sheet                       | <a href="#">P1022DS</a><br><a href="#">P1020, 1021, and P1022 Designing</a><br><a href="#">P1013/P1022 Fact Sheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a>                                               | Voltage - I/O                    | -                                                                                                                     |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | USB 2.0 + PHY (2)                                                                       | Supplier Device Package          | 689-TEPBGA II (31x31)                                                                                                 |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.067GHz                                                                                | Series                           | QorIQ P1                                                                                                              |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cryptography, Random Number Generator                                                   | SATA                             | SATA 3Gbps (2)                                                                                                        |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DDR2, DDR3                                                                              | Packaging                        | Tray                                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 689-BBGA Exposed Pad                                                                    | Operating Temperature            | 0°C ~ 105°C (TA)                                                                                                      |
| Number of Cores/Bus Width                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 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  | LCD                                                                                                                   |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PowerPC e500v2 Microprocessor IC QorIQ P1 2 Core, 32-Bit 1.067GHz 689-TEPBGA II (31x31) | Core Processor                   | PowerPC e500v2                                                                                                        |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Security; SEC                                                                           | Base Part Number                 | P1022                                                                                                                 |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DUART, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD, SPI                                  |                                  |                                                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                     |                                                               |                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">P1022NSN2MHB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXN2LFB</a><br>Description: IC MPU Q OR IQ 1.067GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXN2EFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NSN2HFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023-6</a><br>Description: BRACKET .187 HOLE REV. F             | Manufacturers: <a href="#">Hamlin / Littelfuse</a>            | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023NSN5CFB</a><br>Description: IC MPU Q OR IQ 500MHZ 457TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023NSN5BFB</a><br>Description: IC MPU Q OR IQ 400MHZ 457TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NSN2LFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXE2HFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023NSE5CFB</a><br>Description: IC MPU Q OR IQ 500MHZ 457TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023-2</a><br>Description: CBL CLAMP P-TYPE SILVER FASTENER     | Manufacturers: <a href="#">Hamlin / Littelfuse</a>            | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022PSE2EBA</a><br>Description: IC MPU Q OR IQ 1.067GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022PSE2LFA</a><br>Description: IC MPU Q OR IQ 1.067GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXN2HFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023-20</a><br>Description: TRACK FOR DIN RAIL                  | Manufacturers: <a href="#">Hamlin / Littelfuse</a>            | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023NSE5BFB</a><br>Description: IC MPU Q OR IQ 400MHZ 457TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022PSN2LFA</a><br>Description: IC MPU Q OR IQ 1.067GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1023-7</a><br>Description: MOUNTING BRACKET .250 HOLE (BM1)     | Manufacturers: <a href="#">Hamlin / Littelfuse</a>            | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXE2LFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">P1022NXE2EFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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