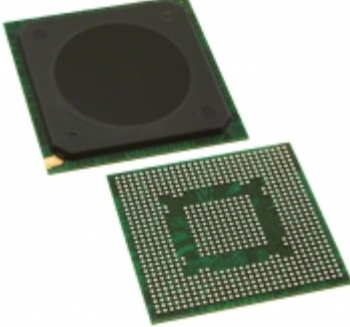


P1013NSE2EFB



Images are for reference only.  
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Part Number: P1013NSE2EFB

Manufacturer: NXP Semiconductors / Freescale

Description: IC MPU Q OR IQ 1.055GHZ 689TBGA

Data sheet:

SATA-A-006187 Errata

SATA-A005255 Errata

MPIC Double Interrupt Errata

TBI Link Status Errata

USB Errata

P1013/P1022 Fact Sheet

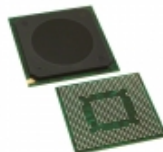
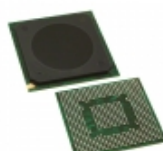
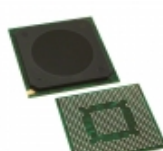
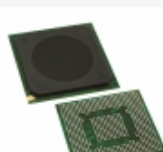
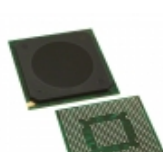
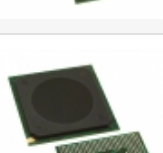
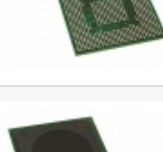
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                         |                                  |                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                            | P1013NSE2EFB                                                                            | Manufacturer                     | NXP Semiconductors / Freescale                                                                                                                                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MPU Q OR IQ 1.055GHZ 689TBGA                                                         | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                     | 4926 pcs                                                                                | Data sheet                       | <a href="#">SATA-A-006187 Errata</a><br><a href="#">SATA-A005255 Errata</a><br><a href="#">MPIC Double Interrupt Errata</a><br><a href="#">TBI Link Status Errata</a><br><a href="#">USB Errata</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                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.055GHz                                                                                | 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                                                                                                                                                                                                                                                                                                                                                                                                              | 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  | LCD                                                                                                                                                                                                                                           |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                   | PowerPC e500v2 Microprocessor IC QorIQ P1 1 Core, 32-Bit 1.055GHz 689-TEPBGA II (31x31) | Core Processor                   | PowerPC e500v2                                                                                                                                                                                                                                |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                      | Security; SEC                                                                           | Base Part Number                 | P1013                                                                                                                                                                                                                                         |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                  | DUART, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD, SPI                                  |                                  |                                                                                                                                                                                                                                               |
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|  | Part#: <a href="#">P1012NXE2FFB</a><br>Description: IC MPU Q OR IQ 800MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">P1013NSN2LFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">P1012NSN2HFB</a><br>Description: IC MPU Q OR IQ 800MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">P1012NXE2HFB</a><br>Description: IC MPU Q OR IQ 800MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">P1013NSN2HFB</a><br>Description: IC MPU Q OR IQ 1.055GHZ 689TBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">P1012PSE2HFB</a><br>Description: IC MPU Q OR IQ 800MHZ 689TEBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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