

P4080NSN1MMB Information

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

General Information

| Parameter | Value |
|--|--------------------------------------|
| Part Number | P4080NSN1MMB |
| Description | P4080 Std NonEnc PbFr 1200/1200 Rev2 |
| Material Type | Tested Packaged Device |
| Life Cycle Description (code) | NOT RECOMMENDED(DECLINING) |
| Status | Not Recommended for New Design |
| Application/Qualification Tier | 10-YEARS APPLICATION LIFE |


Package Information

| Parameter | Value |
|--|--|
| Package Type and Termination Count | FCPBGA 1295 |
| Package Description and Mechanical Drawing | FCPBGA 1295 37.5SQ3.55P1 |
| Device Weight(g) | 13.97780 |
| Package Length (nominal)(mm) | 37.500 |
| Package Width (nominal)(mm) | 37.500 |
| Package Thickness (nominal)(mm) | 3.190 |
| Maximum Height Above Board(mm) | 3.530 |
| Tape & Reel | No |

Environmental and Compliance Information

| Parameter | Value |
|--|---|
| Pb-Free | No |
| RoHS Compliant |  |
| RoHS technical exemption(s) | 15 |
| Halogen Free | Yes |
| Material Composition Declaration (MCD) | Download MCD Report  Download MCD Report  |
| RoHS Certificate of Analysis (CoA) | Contact Us |
| 2nd Level Interconnect | e1 |
| Moisture Sensitivity Level (MSL) | 3 |
| Floor Life | 168 HOURS |
| Peak Package Body Temperature (PPT)(°C) | 245 |
| Maximum Time at Peak Temperature (s) | 30 |
| Number of Reflow Cycles | 3 |
| REACH SVHC | Freescale REACH Statement |

Replacement Parts information for P4080NSN1MMB

| Replacement Part | Replacement Type | Replacement Reason | Status | Device Sample Availability | Device Production Availability | Further Replacements | Replacement Part Details |
|------------------------------|---|--|--------|----------------------------|--------------------------------|----------------------|---|
| P4080NSN7MMC | Same Form, Fit & Function, Pin-for-Pin Equivalent | Fabrication Site New Product Qualification Subcontractor Assembly Site Device Specification or Errata | Active | 12 Apr 2013 | 01 Nov 2013 | - |  |

Manufacturing Information

| Parameter | Value |
|-----------------|-------|
| Micron Size(?m) | .04 |

Ordering Information

| Parameter | Value |
|--|-----------------------------|
| Minimum Package Quantity (MPQ) | 1 |
| MPQ Container | TRAY |
| Exempt from Minimum Delivery Value | No |
| Preferred Order Quantity (POQ) | 105 |
| POQ Container | BOX |
| Export Control Classification Number (US) | 3A991A1 |
| Harmonized Tariff (US) Disclaimer | 8542.31.0000 |
| CCATS Document | - |
| ENC Status | - |
| Other Trade Compliance Documents | - |
| Budgetary Price excluding tax(US\$) Change Currency | 1000 @ US\$290.34 each |
| Order | Distributor |

Product/Process Change Notice (PCN)

| Number | Type | Title | Issue Date | Effectivity Date |
|--------|------------------|---|-------------|------------------|
| 15020 | Product Bulletin | P4080 SGMII MAY FAIL LINK INITIALIZATION | 19 Mar 2012 | 20 Mar 2012 |
| 15008 | Product Bulletin | ESDHC Host May Not Detect SD Card Insertion/Removal Using DAT3 Signal | 13 Feb 2012 | 14 Feb 2013 |

Operating Characteristics

| Parameter | Value |
|---|--|
| Ambient Operating Temperature (Min-Max) (°C) | 0 to 70 |
| Bus Frequency (Max) (MHz) | 600 |
| Cache (KB) | 32 |
| Core: Number of cores (Spec) | 8 |
| Core: Type | e500mc |
| Device Production Availability | 01 Nov 2013 |
| Device Sample Availability | 12 Apr 2013 |
| Ethernet | 3 |
| Ethernet Type | 1GBaseT SGMII |
| External Bus Interface | RapidIO-Serial |
| External Memory Supported | DDR3 DDR2 |
| GPIOs | 32 |
| I2C | 4 |
| Junction Operating Temperature (Max) (°C) | 105 |
| L2 Cache (Max) (kB) | 128 |
| L3 Cache (Max) (kB) | 2000 |
| Operating Frequency (Max) (MHz) | 1200 |
| Sample Exception Availability | N |
| | 8 |
| | 1 |
| Serial Interface - Number of Serial Interfaces | 4 |
| | 2 |
| | 3 |
| Serial Interface - Serial Interface Type | SGMII USB SPI I2C UART Ethernet |
| SPI | 1 |
| UART | 2 |
| USB | 2 |
| USB features | USB 2.0 |

[Reliability Data Lookup](#)

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