

# B4860NXE7QUMD :Part Detail

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## General Information

|                                |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| Part Number                    | B4860NXE7QUMD                                                                                     |
| Description                    | QorIQ Qonverge SoC, 6x1.2GHz Starcore DSP, 4x1.6GHz e6500 CPU, MAPLE-B3 accl, encrypted, -40-105C |
| Product Line                   | G9164E                                                                                            |
| PTI                            | NLQA                                                                                              |
| Material Type                  | Tested Packaged Device                                                                            |
| Life Cycle Description (code)  | PRODUCT STABLE GROWTH/MATURITY                                                                    |
| Status                         | Active                                                                                            |
| Application/Qualification Tier | 10-YEARS APPLICATION LIFE                                                                         |

## Package Information

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Package Type and Termination Count         | FCPBGA 1020                            |
| Package Description and Mechanical Drawing | <a href="#">FCPBGA 1020 33*33*2 P1</a> |
| Device Weight(g)                           | 7.09730                                |
| Package Length (nominal)(mm)               | 33.000                                 |
| Package Width (nominal)(mm)                | 33.000                                 |
| Package Thickness (nominal)(mm)            | 2.000                                  |
| Tape & Reel                                | No                                     |

## Environmental and Compliance Information

|                                        |                                                                         |
|----------------------------------------|-------------------------------------------------------------------------|
| Pb-Free                                |                                                                         |
| RoHS Compliant                         |                                                                         |
| Halogen Free                           | Yes                                                                     |
| Material Composition Declaration (MCD) | <a href="#">Download MCD Report</a> <a href="#">Download MCD Report</a> |
| RoHS Certificate of Analysis (CoA)     | <a href="#">Contact Us</a>                                              |
| 2nd Level Interconnect                 | e1                                                                      |
| Moisture Sensitivity Level (MSL)       | 3                                                                       |
| Floor Life                             | 168 HOURS                                                               |

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Peak Package Body Temperature (PPT)(°C) | 250                                 |
| Maximum Time at Peak Temperature (s)    | 30                                  |
| Number of Reflow Cycles                 | 3                                   |
| REACH SVHC                              | <a href="#">NXP REACH Statement</a> |

### Manufacturing Information

|                 |      |
|-----------------|------|
| Micron Size(μm) | .028 |
|-----------------|------|

### Ordering Information

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Minimum Package Quantity (MPQ)                            | 24             |
| MPQ Container                                             | TRAY           |
| Exempt from Minimum Delivery Value                        | No             |
| Preferred Order Quantity (POQ)                            | 120            |
| POQ Container                                             | BRICK          |
| Export Control Classification Number (US)                 | 5A002          |
| Harmonized Tariff (                                       |                |
| CCATS Document                                            | -              |
| ENC Status                                                | -              |
| Other Trade Compliance Documents                          | -              |
| <a href="#">Budgetary Price excluding tax(US Currency</a> | 1000 @ US each |

Order

### Operating Characteristics

|                                              |                                      |
|----------------------------------------------|--------------------------------------|
| Accelerators                                 | DPAA<br>MAPLE-B<br>Altivec SIMD unit |
| Additional Features                          | CPRI<br>SRIO                         |
| Ambient Operating Temperature (Min-Max) (°C) | -40 to 105                           |
| Bus Frequency (Max) (MHz)                    | 600                                  |
| Cache (KB)                                   | 32                                   |
| Core Type                                    | SC3900<br>e6500                      |
| Core: Number of cores (Spec)                 | 10                                   |
| DUART                                        | 2                                    |
| eSPI                                         | 1                                    |
| External Bus Interface                       | PCI-Express                          |
| External Memory Supported                    | DDR3                                 |

|                                 |             |
|---------------------------------|-------------|
|                                 | DDR3L       |
| I2C                             | 4           |
| L2 Cache (Max) (KB)             | 8192        |
| Operating Frequency (Max) (MHz) | 1600        |
| Sample Exception Availability   | N           |
| USB features                    | 1 x USB 2.0 |

[Reliability Data Lookup](#)

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