

T2081NSN8MQB :Part Detail

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GENERAL INFORMATION

Part Number	T2081NSN8MQB
Description	QorIQ, 64b Power Arch, 8x 1.2GHz threads, 1.6GT/s DDR3/3L, 2x10GE, crypto disabled, 0-105C, Rev 1.1
Product Line	GVC2081
PTI	NLFB
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	10-YEARS APPLICATION LIFE

PACKAGE INFORMATION

Package Type and Termination Count	FCPBGA 780
Package Description and Mechanical Drawing	FC 780 23x23 2.46 Lidded
Device Weight(g)	3.96010
Package Length (nominal)(mm)	23.000
Package Width (nominal)(mm)	23.000
Package Thickness (nominal)(mm)	2.460
Tape & Reel	No

ENVIRONMENTAL AND COMPLIANCE INFORMATION

Pb-Free	
RoHS Compliant	
Halogen Free	Yes
Material Composition Declaration (MCD)	Download MCD Report Download MCD Report
RoHS Certificate of Analysis (CoA)	Download RoHS CoA Report
2nd Level Interconnect	e1
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Peak Package Body Temperature	250

(PPT)(°C)

Maximum Time at Peak Temperature (s) 30

Number of Reflow Cycles 3

REACH SVHC [NXP REACH Statement](#)

MANUFACTURING INFORMATION

Micron Size(μm) .028

ORDERING INFORMATION

Minimum Package Quantity (MPQ) 60

MPQ Container TRAY

Exempt from Minimum Delivery Value Yes

Preferred Order Quantity (POQ) 300

POQ Container BOX

Export Control Classification Number (US) 3A991A1

Harmonized Tariff (

CCATS Document -

ENC Status -

Other Trade Compliance Documents -

[Budgetary Price excluding tax\(US Currency\)](#) 1000 @ US each

Order

OPERATING CHARACTERISTICS

Ambient Operating Temperature (Min-Max) (°C) 0 to 105

Core Type e6500

Core: Number of cores (Spec) 8

DUART 2

Ethernet Type RGMII
SGMII
XAUI

External Memory Supported DDR3
DDR3L
SDRAM

GPIOs 32

I2C 4

L2 Cache (Max) (KB) 2000

L3 Cache (Max) (KB) 512

Operating Frequency (Max) (MHz) 1200

PCIe 4x Gen 2.0/3.0

Sample Exception Availability N

USB features 2 x USB 2.0 w Phy

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