

# C291NSE7FHA :Part Detail

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## General Information

Part Number	C291NSE7FHA
Description	Crypto Coprocessor SoC, 1XSEC, Power Arch 32 Bit 667MHz, 2XGb Enet, DDR3/3L
Product Line	GFCC290E
PTI	NKQA
Material Type	Tested Packaged Device
<a href="#">Life Cycle Description (code)</a>	PRODUCT STABLE GROWTH/MATURITY
Status	Active
<a href="#">Application/Qualification Tier</a>	10-YEARS APPLICATION LIFE

## Package Information

Package Type and Termination Count	FCPBGA 780
Package Description and Mechanical Drawing	<a href="#">FC BGA 780 29*29*2.68 P1</a>
Device Weight(g)	5.43560
Package Length (nominal)(mm)	29.000
Package Width (nominal)(mm)	29.000
Package Thickness (nominal)(mm)	2.680
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	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) .04

## Ordering Information

Minimum Package Quantity (MPQ) 36

MPQ Container TRAY

Exempt from Minimum Delivery Value No

Preferred Order Quantity (POQ) 180

POQ Container BRICK

Export Control Classification Number (US) 5A002A

Harmonized Tariff (

CCATS Document -

ENC Status -

Other Trade Compliance Documents -

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

Order

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## Operating Characteristics

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

Cache (KB) 32

Co Processor Frequency (Max) (MHz) 267

Co Processor Type Security

Core Type e500v2

Ethernet Type 10GBaseT  
1GBaseT

External Bus Interface PCI-Express

External Memory Supported DDR3  
DDR3L  
SDRAM

I2C 1

Number of Coprocessors 1

Operating Frequency (Max) (MHz)	667
Power Dissipation (Max) (W) (Max) (W)	6
Sample Exception Availability	Y
SPI	1
UART	1

[Reliability Data Lookup](#)

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