

Image may be representation.  
See specifications for product details.



## P2020NXN2MHC

Manufacturer Part Number	<b>P2020NXN2MHC</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-P2020NXN2MHC
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MPU Q OR IQ 1.2GHZ 689TEBGA
Package	689-BBGA Exposed Pad
Data sheet	<b>P2010/20 Overview.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

P2020NXN2MHC - NXP USA Inc..New Original in Stock. Download Linear Technology P2020NXN2MHC datasheet/specifications on AllelcoElec.com.  
Request a quote for P2020NXN2MHC, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

P2020NXN2MHC Tech Specifications

P2020NXN2MHC - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 125°C (TA)
Voltage - I/O	-	Number of Cores/Bus Width	2 Core, 32-Bit
USB	USB 2.0 + PHY (2)	Mounting Type	Surface Mount
Supplier Device Package	689-TEPBGA II (31x31)	Graphics Acceleration	No
Speed	1.2GHz	Ethernet	10/100/1000Mbps (3)
Series	QorIQ P2	Display & Interface Controllers	-
Security Features	-	Core Processor	PowerPC e500v2
SATA	-	Co-Processors/DSP	-
RAM Controllers	DDR2, DDR3	Base Product Number	P2020
Package / Case	689-BBGA Exposed Pad	Additional Interfaces	DUART, I <sup>2</sup> C, MMC/SD, SPI
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. P2020NXN2MHC

Product Attribute				
Part Number	P2020NXN2MHC	<b>P2020PSE2KZA</b>	<b>P2020NXE2KFC</b>	<b>P2020NXE2KHC</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Core Processor	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2
RAM Controllers	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3
Package	Tray	Tray	Tray	Tray
Package / Case	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad
Additional Interfaces	DUART, I <sup>2</sup> C, MMC/SD, SPI	DUART, I <sup>2</sup> C, MMC/SD, SPI	DUART, I <sup>2</sup> C, MMC/SD, SPI	DUART, I <sup>2</sup> C, MMC/SD, SPI
Series	QorIQ P2	QorIQ P2	QorIQ P2	QorIQ P2
Display & Interface Controllers	-	-	-	-
USB	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 125°C (TA)	0°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)
Base Product Number	P2020	P2020	P2020	P2020
Voltage - I/O	-	-	-	-
Ethernet	10/100/1000Mbps (3)	10/100/1000Mbps (3)	10/100/1000Mbps (3)	10/100/1000Mbps (3)
Co-Processors / DSP	-	Security; SEC 3.3	Security; SEC 3.3	Security; SEC 3.3
Speed	1.2GHz	1.2GHz	1.2GHz	1.2GHz
Graphics Acceleration	No	No	No	No
Security Features	-	Cryptography, Random Number Generator	Cryptography, Random Number Generator	Cryptography, Random Number Generator
SATA	-	-	-	-
Supplier Device Package	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit

### P2020NXN2MHC Datasheet PDF

Download P2020NXN2MHC pdf datasheets and NXP USA Inc. documentation for P2020NXN2MHC - NXP USA Inc..

#### Datasheets

[P2010/20 Overview.pdf](#)


#### PCN Packaging

[All Dev Label Update 15/Dec/2020.pdf](#)

[Mult Dev Pkg Seal 15/Dec/2020.pdf](#)

## Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

## PCN Design/Specification

 Mult Dev 25/May/2020.pdf

## PCN Obsolescence/ EOL

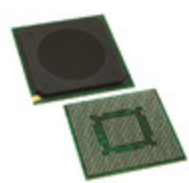
 Mult Dev EOL 04/Mar/2021.pdf

## Errata

 TBI Link Status Errata.pdf

## Customers Also Interested in

### Recommended Products



#### P2020PSE2KZA

NXP USA Inc.  
IC MPU Q OR IQ 1.2GHZ 689TEBGA



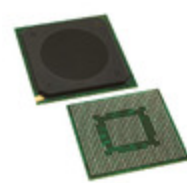
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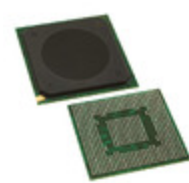
#### P2020PSE4KZA

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#### P2020NXE2KFC

NXP USA Inc.  
IC MPU Q OR IQ 1.2GHZ 689TEBGA



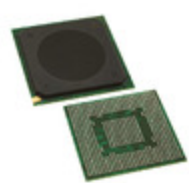
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NXP USA Inc.  
IC MPU QORIQ P2 1.2GHZ PBGA689



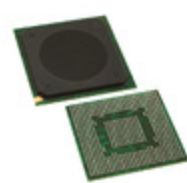
#### P2020PSE2H2B

Freescle Semiconductor  
QORIQ RISC MICROPROCESSOR,  
POWER



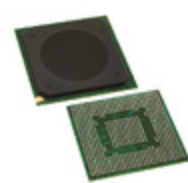
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IC MPU Q OR IQ 1.2GHZ 689TEBGA



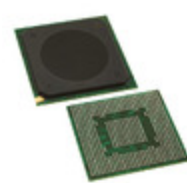
#### P2020NXE2MHC

NXP USA Inc.  
IC MPU Q OR IQ 1.2GHZ 689TEBGA



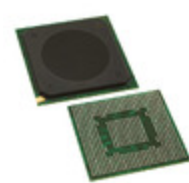
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IC MPU Q OR IQ 1.2GHZ 689TEBGA



#### P2020NXN2HFC

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IC MPU QORIQ P2 1.2GHZ PBGA689



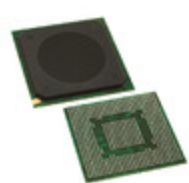
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IC MPU Q OR IQ 1.2GHZ 689TEBGA



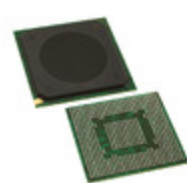
#### P2020SXN2MHC

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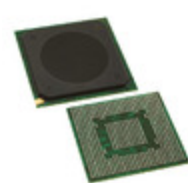
#### P2020NXN2KHC

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IC MPU Q OR IQ 1.2GHZ 689TEBGA



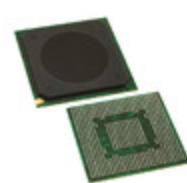
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IC MPU Q OR IQ 1.2GHZ 689TEBGA



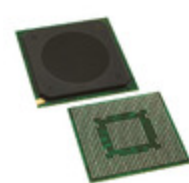
#### P2020NSN2MFC

NXP USA Inc.  
IC MPU QORIQ P2 1.2GHZ PBGA689



#### P2020NXN2KFC

NXP USA Inc.  
IC MPU Q OR IQ 1.2GHZ 689TEBGA



#### P2020NSN2NHC

NXP USA Inc.  
IC MPU Q OR IQ 1.2GHZ 689TEBGA



#### P2020NSN2MFC

Freescle Semiconductor  
QORIQ, 32-BIT POWER ARCH SOC, 2

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Alleco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

### Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference

Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference

Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

## Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



## Your Faithful Supply Chain Partner -



Efficient Supply  
Management



Cost-Saving  
Procurement



Fast Sourcing &  
Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@alleco.com

## Certifications & Memberships



View More

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