

Image may be representation.
See specifications for product details.



P1012NXE2HFB

Manufacturer Part Number	P1012NXE2HFB
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-P1012NXE2HFB
ECAD Model	Request Free CAD Models
Parts Description	IC MPU Q OR IQ 800MHZ 689TEBGA
Package	689-BBGA Exposed Pad
Data sheet	P1012/21 Fact Sheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

P1012NXE2HFB - NXP USA Inc..New Original in Stock. Download Linear Technology P1012NXE2HFB datasheet/specifications on AllelcoElec.com.
Request a quote for P1012NXE2HFB, please send us email: info@allelco.com

Specifications

P1012NXE2HFB Tech Specifications

P1012NXE2HFB - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 105°C (TA)
Voltage - I/O	-	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 + PHY (2)	Mounting Type	Surface Mount
Supplier Device Package	689-TEPBGA II (31x31)	Graphics Acceleration	No
Speed	800MHz	Ethernet	10/100/1000Mbps (3)
Series	QorIQ P1	Display & Interface Controllers	-
Security Features	Cryptography, Random Number Generator	Core Processor	PowerPC e500v2
SATA	-	Co-Processors/DSP	Communications; QUICC Engine, Security; SEC 3.3
RAM Controllers	DDR2, DDR3	Base Product Number	P1012
Package / Case	689-BBGA Exposed Pad	Additional Interfaces	DUART, I ² C, MMC/SD, SPI
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. P1012NXE2HFB

Product Attribute				
Part Number	P1012NXE2HFB	P1011NXN2DFB	P1013NXE2LFB	P1013NSN2HFB
Manufacturer	NXP USA Inc.	Freescle Semiconductor	NXP USA Inc.	NXP USA Inc.
Additional Interfaces	DUART, I ² C, MMC/SD, SPI	DUART, I ² C, MMC/SD, SPI	DUART, I ² C, I ² S, MMC/SD, SPI	DUART, I ² C, I ² S, MMC/SD, SPI
SATA	-	-	SATA 3Gbps (2)	SATA 3Gbps (2)
USB	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)
Base Product Number	P1012	-	P1013	P1013
Co-Processors/DSP	Communications; QUICC Engine, Security; SEC 3.3	-	Security; SEC	-
Series	QorIQ P1	QorIQ P1	QorIQ P1	QorIQ P1
Graphics Acceleration	No	No	No	No
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Display & Interface Controllers	-	-	LCD	LCD
Ethernet	10/100/1000Mbps (3)	10/100/1000Mbps (3)	10/100/1000Mbps (2)	10/100/1000Mbps (2)
Package / Case	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)	0°C ~ 105°C (TA)
Supplier Device Package	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)
Security Features	Cryptography, Random Number Generator	-	Cryptography, Random Number Generator	-
Voltage - I/O	-	-	-	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2
Speed	800MHz	800MHz	1.055GHz	1.055GHz
Package	Tray	Bulk	Tray	Tray
RAM Controllers	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3

P1012NXE2HFB Datasheet PDF

Download P1012NXE2HFB pdf datasheets and NXP USA Inc. documentation for P1012NXE2HFB - NXP USA Inc..

Datasheets

P1012/21 Fact Sheet.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



Cylindrical Battery Holders.pdf

PCN Obsolescence/ EOL



Cylindrical Battery Holders.pdf

Errata



USB Errata.pdf

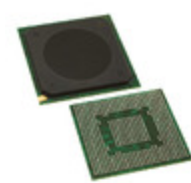
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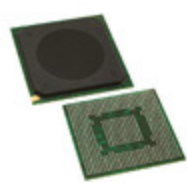
P1011NXN2DFB

Freescle Semiconductor
QORIQ, POWER ARCH 32-BIT SOC,
53



P1013NXE2LFB

NXP USA Inc.
IC MPU Q OR IQ 1.055GHZ 689TBGA



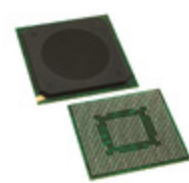
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NXP USA Inc.
IC MPU Q OR IQ 1.055GHZ 689TBGA



P1012NSE2HFB

Freescle Semiconductor
QORIQ, POWER ARCH 32-BIT SOC,
80



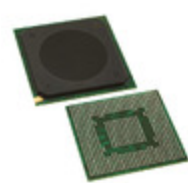
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IC MPU Q OR IQ 1.055GHZ 689TBGA



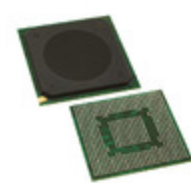
P1013NXE2LFB

Freescle Semiconductor
QORIQ, 32 BIT POWER ARCH SOC,
1G



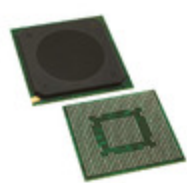
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IC MPU Q OR IQ 800MHZ 689TEBGA



P1013NSN2EFB

NXP USA Inc.
IC MPU Q OR IQ 1.055GHZ 689TBGA



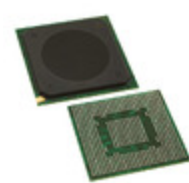
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NXP USA Inc.
IC MPU Q OR IQ 800MHZ 689TEBGA



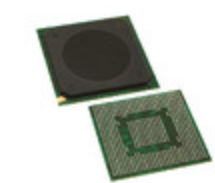
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Freescle Semiconductor
QORIQ, 32 BIT POWER ARCH SOC,
1G



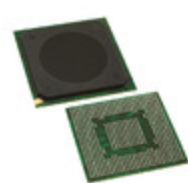
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IC MPU Q OR IQ 800MHZ 689TEBGA



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IC MPU Q OR IQ 800MHZ 689TEBGA



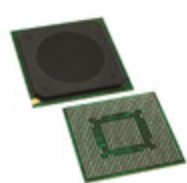
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IC MPU Q OR IQ 800MHZ 689TEBGA



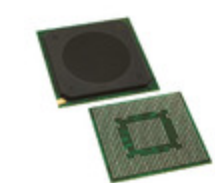
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P1012NSN2HFB

Freescle Semiconductor
QORIQ INTEGRATED PROCESSOR



P1011NXN2HFB

NXP USA Inc.
IC MPU Q OR IQ 800MHZ 689TEBGA

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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