

Image may be representation.  
See specifications for product details.



## LS1021ASN7KQB

Manufacturer Part Number	<b>LS1021ASN7KQB</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-LS1021ASN7KQB
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	LS1 32BIT ARM SOC 1GHZ DDR3/4
Package	525-FBGA, FCBGA
Data sheet	<b>LS1021A Fact Sheet.pdf</b>
	<b>LS1021A Fact Sheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

LS1021ASN7KQB - NXP USA Inc..New Original in Stock. Download Linear Technology LS1021ASN7KQB datasheet/specifications on AllelcoElec.com.  
Request a quote for LS1021ASN7KQB, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

LS1021ASN7KQB Tech Specifications

LS1021ASN7KQB - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	0°C ~ 105°C
Voltage - I/O	-	Number of Cores/Bus Width	2 Core, 32-Bit
USB	USB 3.0 (1) + PHY	Mounting Type	Surface Mount
Supplier Device Package	525-FCPBGA (19x19)	Graphics Acceleration	-
Speed	1.0GHz	Ethernet	GbE (3)
Series	QorIQ® Layerscape	Display & Interface Controllers	2D-ACE
Security Features	Secure Boot, TrustZone®	Core Processor	ARM® Cortex®-A7
SATA	SATA 6Gbps (1)	Co-Processors/DSP	-
RAM Controllers	DDR3L, DDR4	Base Product Number	LS1021
Package / Case	525-FBGA, FCBGA	Additional Interfaces	-
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. LS1021ASN7KQB

Product Attribute				
Part Number	LS1021ASN7KQB	<b>LS101MASN7EHA</b>	<b>LS1021AXE7MQB</b>	<b>LS1020AXN7MQB</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Supplier Device Package	525-FCPBGA (19x19)	448-PBGA w/Heat Spreader (23x23)	525-FCPBGA (19x19)	525-FCPBGA (19x19)
Package / Case	525-FBGA, FCBGA	448-FBGA Exposed Pad	525-FBGA, FCBGA	525-FBGA, FCBGA
Graphics Acceleration	-	No	-	-
Co-Processors/DSP	-	-	-	Multimedia; NEON™ SIMD
Ethernet	GbE (3)	GbE (2)	GbE (3)	GbE (3)
RAM Controllers	DDR3L, DDR4	DDR2	DDR3L, DDR4	DDR3L, DDR4
Display & Interface Controllers	2D-ACE	-	2D-ACE	-
Package	Tray	Tray	Tray	Tray
Voltage - I/O	-	-	-	-
Security Features	Secure Boot, TrustZone®	-	Secure Boot, TrustZone®	Secure Boot, TrustZone®
Additional Interfaces	-	I²C, PCIe, PCM/TDM, SPI, UART	-	-
Core Processor	ARM® Cortex®-A7	ARM1136JF-S	ARM® Cortex®-A7	ARM® Cortex®-A7
Base Product Number	LS1021	LS101	LS1021	LS1020
SATA	SATA 6Gbps (1)	-	SATA 6Gbps (1)	SATA 3Gbps (1)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	QorIQ® Layerscape	QorIQ LS1	QorIQ® Layerscape	QorIQ® Layerscape
Number of Cores/Bus Width	2 Core, 32-Bit	1 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit
Operating Temperature	0°C ~ 105°C	0°C ~ 70°C (TA)	-40°C ~ 105°C	-40°C ~ 105°C
Speed	1.0GHz	650MHz	1.2GHz	1.2GHz
USB	USB 3.0 (1) + PHY	USB 2.0 + PHY (1)	USB 3.0 (1) + PHY	USB 2.0 (1), USB 3.0 + PHY

### LS1021ASN7KQB Datasheet PDF

Download LS1021ASN7KQB pdf datasheets and NXP USA Inc. documentation for LS1021ASN7KQB - NXP USA Inc..

#### Datasheets


[LS1021A 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

 Mult Dev 25/May/2020.pdf

 LS1020A/LS1021A/LS1022A 12/Jul/2019.pdf

## HTML Datasheet

 LS1021A Fact Sheet.pdf

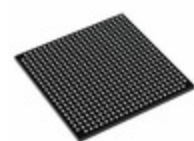
## Customers Also Interested in

### Recommended Products



#### LS101MASN7EHA

NXP USA Inc.  
IC PROCESSOR DUAL CORE



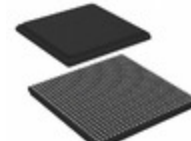
#### LS1021AXE7MQB

NXP USA Inc.  
LS1 32BIT ARM SOC 1.2GHZ DDR3/



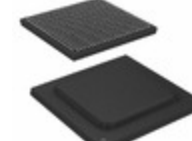
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NXP USA Inc.  
IC MPU QORIQ 1.2GHZ 525FCPBGA



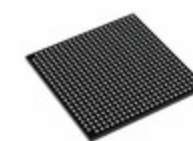
#### LS1023AXN8QQB

NXP USA Inc.  
QORIQ 2XCPU 64-BIT ARM ARCH 1.



#### LS1023ASE7KQB

NXP USA Inc.  
IC MPU QORIQ 1.0GHZ 621FCPBGA



#### LS1021AXN7MQB

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LS1 32BIT ARM SOC 1.2GHZ DDR3/



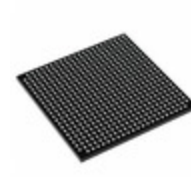
#### LS1023ASE7QQB

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#### LS1012AXE7EKA

NXP USA Inc.  
QORIQ 64-BIT ARM MPU 600MHZ  
EXT



#### LS1021ASE7MQB

NXP USA Inc.  
IC MPU QORIQ 1.2GHZ 525FCPBGA



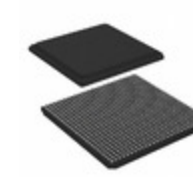
#### LS1020AXN7HNB

NXP USA Inc.  
LS1 32BIT ARM SOC 800MHZ DDR3/



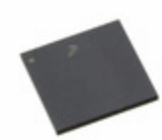
#### LS1021AXE7MQB

Freescal Semiconductor  
LS1 32BIT ARM SOC, 1.2GHZ, DDR3/



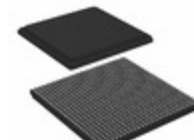
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NXP USA Inc.  
QORIQ 2XCPU 64-BIT ARM ARCH 1.



#### LS1012AXN7HKA

NXP USA Inc.  
QORIQ 64-BIT ARM MPU 800MHZ  
EXT



#### LS1023ASE8MQB

NXP USA Inc.  
IC MPU QORIQ 1.2GHZ 780FCPBGA



#### LS101MASN7EHA

Freescal Semiconductor  
LS101 - QorIQ Layerscape 32-bit



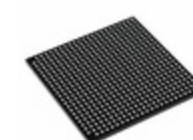
#### LS1020AXE7MQB

NXP USA Inc.  
IC MPU QORIQ 1.2GHZ 525FCPBGA



#### LS1020AXE7KQB

NXP USA Inc.  
LS1 32BIT ARM SOC 1GHZ DDR3/4



#### LS1021AXE7KQB

NXP USA Inc.  
LS1 32BIT ARM SOC 1GHZ DDR3/4

## 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



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