

Image may be representation.  
See specifications for product details.



## MCIMX6S4AVM08AC

Manufacturer Part Number	<b>MCIMX6S4AVM08AC</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MCIMX6S4AVM08AC
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX6S 800MHZ 624MAPBGA
Package	624-LFBGA
Data sheet	<a href="#">i.MX 6 Series Fact Sheet.pdf</a> <a href="#">i.MX 6Solo/6DualLite Appl.pdf</a>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MCIMX6S4AVM08AC - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6S4AVM08AC datasheet/specifications on AllelcoElec.com.  
Request a quote for MCIMX6S4AVM08AC, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MCIMX6S4AVM08AC Tech Specifications  
MCIMX6S4AVM08AC - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 125°C (TJ)
Voltage - I/O	1.8V, 2.5V, 2.8V, 3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 + PHY (4)	Mounting Type	Surface Mount
Supplier Device Package	624-MAPBGA (21x21)	Graphics Acceleration	Yes
Speed	800MHz	Ethernet	10/100/1000Mbps (1)
Series	i.MX6S	Display & Interface Controllers	Keypad, LCD
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	Core Processor	ARM® Cortex®-A9
SATA	-	Co-Processors/DSP	Multimedia; NEON™ SIMD
RAM Controllers	LPDDR2, LVDDR3, DDR3	Base Product Number	MCIMX6
Package / Case	624-LFBGA	Additional Interfaces	CAN, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, UART
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MCIMX6S4AVM08AC

Product Attribute				
Part Number	MCIMX6S4AVM08AC	MCIMX6S4AVM08AB	MCIMX6S1AVM08AB	MCIMX6QP7CVT8AA
Manufacturer	NXP USA Inc.	Freescle Semiconductor	Freescle Semiconductor	NXP USA Inc.
Package / Case	624-LFBGA	624-LFBGA	624-LFBGA	624-FBGA, FCBGA
Core Processor	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9
Voltage - I/O	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	Keypad, LCD	HDMI, Keypad, LCD, LVDS, MIPI/DSI, Parallel
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
Speed	800MHz	800MHz	800MHz	800MHz
Additional Interfaces	CAN, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, EBI/EMI, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, S/PDIF, UART
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	ARM TZ, A-HAB, CAAM, CSU, SJC, SNVS
RAM Controllers	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, DDR3L, DDR3
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Series	i.MX6S	i.MX6S	i.MX6S	i.MX6QP
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 105°C (TA)
SATA	-	-	-	SATA 3Gbps (1)
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	4 Core, 32-Bit
Package	Tray	Bulk	Bulk	Tray
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (3), USB 2.0 OTG + PHY (1)
Graphics Acceleration	Yes	Yes	Yes	Yes
Supplier Device Package	624-MAPBGA (21x21)	624-MAPBGA (21x21)	624-MAPBGA (21x21)	624-FCBGA (21x21)

## MCIMX6S4AVM08AC Datasheet PDF


Download MCIMX6S4AVM08AC pdf datasheets and NXP USA Inc. documentation for MCIMX6S4AVM08AC - NXP USA Inc..


### Datasheets

[i.MX 6 Series Fact Sheet.pdf](#)

[i.MX 6Solo/6DualLite Appl.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 Assembly/Origin

 Mult Dev A/T Site 28/Apr/2021.pdf

## Errata

 i.MX 6Solo/6DualLite Errata.pdf

## Customers Also Interested in

### Recommended Products



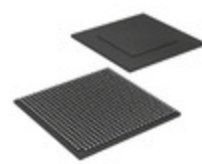
#### MCIMX6S4AVM08AB

Freescale Semiconductor  
I.MX 6 SERIES 32 BIT MPU, ARM CO



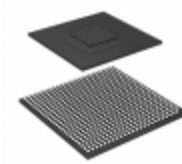
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I.MX 6 SERIES 32 BIT MPU, ARM CO



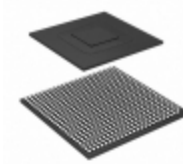
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NXP USA Inc.  
IC MPU I.MX6QP 800MHZ 624FCBGA



#### MCIMX6S4AVM08AB

NXP USA Inc.  
IC MPU I.MX6S 800MHZ 624MAPBGA



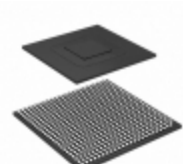
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NXP USA Inc.  
IC MPU I.MX6S 1.0GHZ 624MAPBGA



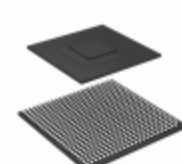
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NXP USA Inc.  
I.MX 6QP ROM PERF ENHAN



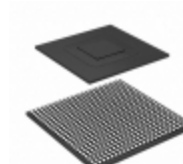
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IC MPU I.MX6S 800MHZ 624MAPBGA



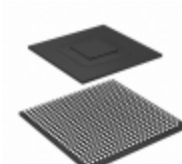
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IC MPU I.MX6S 1.0GHZ 624MAPBGA



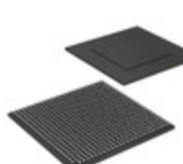
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IC MPU I.MX6S 1.0GHZ 624MAPBGA



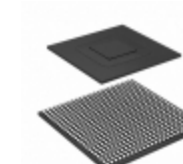
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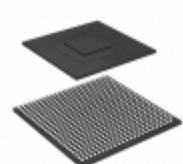
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NXP USA Inc.  
IC MPU I.MX6QP 1GHZ 624FCBGA



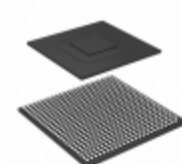
#### MCIMX6S5EVM10AD

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I.MX 6S ROM PERF ENHAN



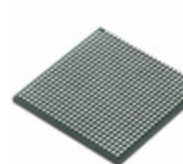
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NXP USA Inc.  
IC MPU I.MX6S 1.0GHZ 624MAPBGA



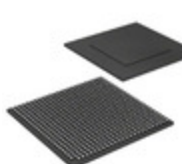
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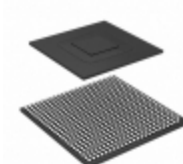
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NXP USA Inc.  
IC MPU I.MX6QP ENHAN 624FCBGA



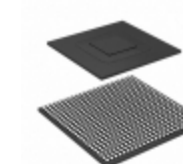
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NXP USA Inc.  
I.MX 6QP ROM PERF ENHAN



#### MCIMX6S5DVM10AD

NXP USA Inc.  
II.MX 6S ROM PERF ENHAN



#### MCIMX6S5DVM10AC

NXP USA Inc.  
IC MPU I.MX6S 1.0GHZ 624MAPBGA

## 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 Allelco 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@allelco.com

## Certifications & Memberships



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