

Image may be representation.  
See specifications for product details.



## MCIMX6D6AVT08AD

Manufacturer Part Number	<b>MCIMX6D6AVT08AD</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MCIMX6D6AVT08AD
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MPU I.MX6D 852MHZ 624FCBGA
Package	624-FBGA, FCBGA
Data sheet	<a href="#">i.MX 6 Series Fact Sheet.pdf</a>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MCIMX6D6AVT08AD - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6D6AVT08AD datasheet/specifications on AllelcoElec.com.  
Request a quote for MCIMX6D6AVT08AD, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MCIMX6D6AVT08AD Tech Specifications  
MCIMX6D6AVT08AD - 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	2 Core, 32-Bit
USB	USB 2.0 + PHY (4)	Mounting Type	Surface Mount
Supplier Device Package	624-FCBGA (21x21)	Graphics Acceleration	Yes
Speed	852MHz	Ethernet	10/100/1000Mbps (1)
Series	i.MX6D	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	SATA 3Gbps (1)	Co-Processors/DSP	Multimedia; NEON™ SIMD
RAM Controllers	LPDDR2, LVDDR3, DDR3	Base Product Number	MCIMX6
Package / Case	624-FBGA, FCBGA	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. MCIMX6D6AVT08AD

Product Attribute				
Part Number	MCIMX6D6AVT08AD	<a href="#">MCIMX6D6AVT10AC</a>	<a href="#">MCIMX6D5EZK08AE</a>	<a href="#">MCIMX6D5EYM10AE</a>
Manufacturer	NXP USA Inc.	Freescal Semiconductor	NXP USA Inc.	NXP USA Inc.
SATA	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)
Graphics Acceleration	Yes	Yes	Yes	Yes
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, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, UART
Core Processor	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9
RAM Controllers	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3
Speed	852MHz	1.0GHz	800MHz	1.0GHz
Package / Case	624-FBGA, FCBGA	624-FBGA, FCBGA	569-LFBGA	624-LFBGA, FCBGA
Package	Tray	Bulk	Tray	Tray
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-20°C ~ 105°C (TJ)	-20°C ~ 105°C (TJ)
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit
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	Keypad, LCD
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
Series	i.MX6D	i.MX6D	i.MX6D	i.MX6D
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)
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, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
Supplier Device Package	624-FCBGA (21x21)	624-FCBGA (21x21)	569-MAPBGA (12x12)	624-FCBGA (21x21)
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

### MCIMX6D6AVT08AD Datasheet PDF

Download MCIMX6D6AVT08AD pdf datasheets and NXP USA Inc. documentation for MCIMX6D6AVT08AD - NXP USA Inc..

#### PCN Packaging

- All Dev Label Update 15/Dec/2020.pdf
- Mult Dev Pkg Seal 15/Dec/2020.pdf

#### Environmental Information

- 
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 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

### PCN Assembly/Origin

 2.73KHz.pdf


### HTML Datasheet

 i.MX 6 Series Fact Sheet.pdf

### Errata

 i.MX 6Dual/6Quad Chip Errata.pdf

### PCN Design/Specification

 MCIMX6YYY 08/May/2019.pdf

## Customers Also Interested in

### Recommended Products



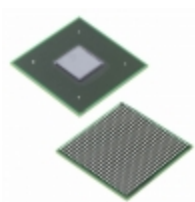
#### MCIMX6D6AVT10AC

Freescale Semiconductor  
I.MX 6 SERIES 32 BIT MPU, DUAL A



#### MCIMX6D5EZK08AE

NXP USA Inc.  
I.MX6D POP ARIK-D POP RO



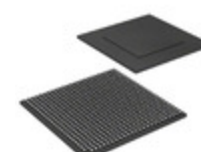
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NXP USA Inc.  
IC MPU I.MX6D ENHANCED  
624FCBGA



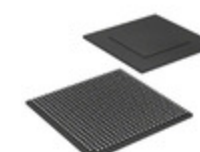
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NXP USA Inc.  
I.MX 6 SERIES 32-BIT MPU DUAL A



#### MCIMX6D6AVT10AD

NXP USA Inc.  
IC MPU I.MX6D 1.0GHZ 624FCBGA



#### MCIMX6D6AVT08AC

NXP USA Inc.  
IC MPU I.MX6D 852MHZ 624FCBGA



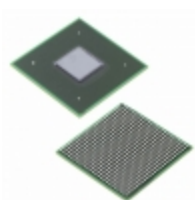
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Freescale Semiconductor  
I.MX 6 SERIES 32 BIT MPU, DUAL A



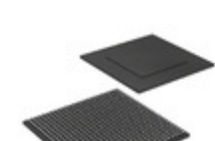
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I.MX 6 SERIES 32-BIT MPU, DUAL A



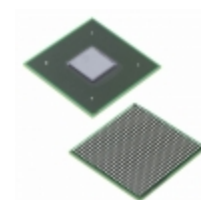
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NXP USA Inc.  
IC MPU I.MX6D 1.2GHZ 624FCBGA



#### MCIMX6D6AVT10ACR

NXP USA Inc.  
IC MPU I.MX6D 1.0GHZ 624FCBGA



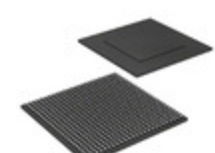
#### MCIMX6D5EYM12AD

NXP USA Inc.  
I.MX 6 SERIES 32-BIT MPU ARM CO



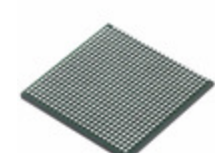
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NXP USA Inc.  
IC MPU I.MX6D 852MHZ 624FCBGA



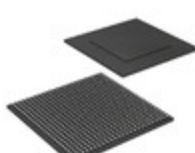
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NXP USA Inc.  
IC MPU I.MX6D 800MHZ 624FCBGA



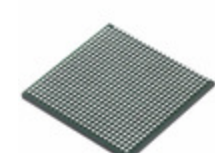
#### MCIMX6D6AVT10AE

NXP USA Inc.  
IC MPU I.MX6D ENHANCED  
624FCBGA



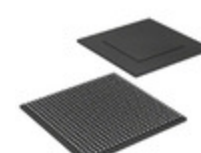
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IC MPU I.MX6D 800MHZ 624FCBGA



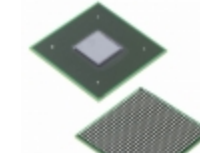
#### MCIMX6D6AVT10AER

NXP USA Inc.  
IC MPU I.MX6D ENHANCED  
624FCBGA



#### MCIMX6D6AVT10AC

NXP USA Inc.  
IC MPU I.MX6D 1.0GHZ 624FCBGA



#### MCIMX6D5EYM10ADR

NXP USA Inc.  
IC MPU I.MX6D 1.0GHZ 624FCBGA

## 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



View More

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