

Image may be representation.  
See specifications for product details.



## MCIMX6D6AVT10AC

Manufacturer Part Number	<b>MCIMX6D6AVT10AC</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MCIMX6D6AVT10AC
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX6D 1.0GHZ 624FCBGA
Package	624-FBGA, FCBGA
Data sheet	<b><a href="#">i.MX 6 Series Fact Sheet.pdf</a></b> <b><a href="#">MCIMX6(Q,D)y(D,E)yyyyC Datasheet.pdf</a></b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MCIMX6D6AVT10AC - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6D6AVT10AC datasheet/specifications on AllelcoElec.com.  
Request a quote for MCIMX6D6AVT10AC, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MCIMX6D6AVT10AC Tech Specifications  
MCIMX6D6AVT10AC - 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	1.0GHz	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. MCIMX6D6AVT10AC

Product Attribute				
Part Number	MCIMX6D6AVT10AC	<b>MCIMX6D6AVT10AER</b>	<b>MCIMX6DP4AVT1AA</b>	<b>MCIMX6D7CVT08AC</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Series	i.MX6D	i.MX6D	i.MX6DP	i.MX6D
Supplier Device Package	624-FCBGA (21x21)	624-FCBGA (21x21)	624-FCBGA (21x21)	624-FCBGA (21x21)
Package / Case	624-FBGA, FCBGA	624-FBGA, FCBGA	624-FBGA, FCBGA	624-FBGA, FCBGA
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (3), USB 2.0 OTG + PHY (1)	USB 2.0 + PHY (4)
Speed	1.0GHz	1.0GHz	1.0GHz	800MHz
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tray	Tape & Reel (TR)	Tray	Tray
Graphics Acceleration	Yes	Yes	Yes	Yes
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 105°C (TA)
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, A-HAB, CAAM, CSU, SJC, SNVS	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection
SATA	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
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, EBI/EMI, I <sup>2</sup> C, I <sup>2</sup> S, MMC/SD/SDIO, SAI, SPI, SSI, S/PDIF, 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, DDR3L, DDR3	LPDDR2, LVDDR3, DDR3
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	HDMI, Keypad, LCD, LVDS, MIPI/DSI, Parallel	Keypad, LCD
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

### MCIMX6D6AVT10AC Datasheet PDF


Download MCIMX6D6AVT10AC pdf datasheets and NXP USA Inc. documentation for MCIMX6D6AVT10AC - NXP USA Inc..

#### Datasheets

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

[MCIMX6\(Q,D\)y\(D,E\)yyyyC Datasheet.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

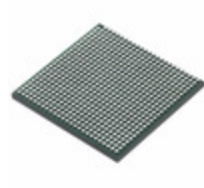
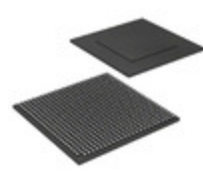
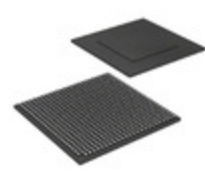

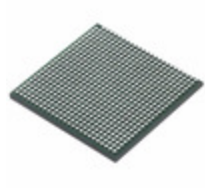
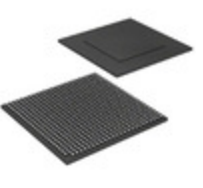
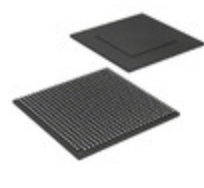
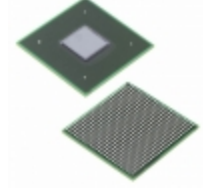

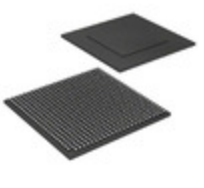

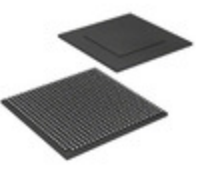
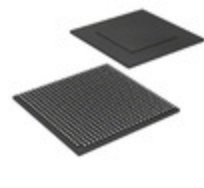

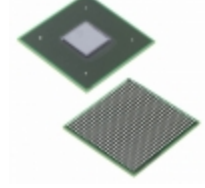



 COO/Label 15-apr-2022.pdf

## Errata

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

## Customers Also Interested in

### Recommended Products

					
<b>MCIMX6D6AVT10AER</b> NXP USA Inc. IC MPU I.MX6D ENHANCED 624FCBGA	<b>MCIMX6DP4AVT1AA</b> NXP USA Inc. IC MPU I.MX6DP 1GHZ 624FCBGA	<b>MCIMX6D7CVT08AC</b> NXP USA Inc. IC MPU I.MX6D 800MHZ 624FCBGA	<b>MCIMX6D6AVT08AC</b> Freescale Semiconductor I.MX 6 SERIES 32 BIT MPU, DUAL A	<b>MCIMX6D6AVT10AE</b> NXP USA Inc. IC MPU I.MX6D ENHANCED 624FCBGA	<b>MCIMX6D6AVT10AD</b> NXP USA Inc. IC MPU I.MX6D 1.0GHZ 624FCBGA
					
<b>MCIMX6D6AVT10ACR</b> NXP USA Inc. IC MPU I.MX6D 1.0GHZ 624FCBGA	<b>MCIMX6D5EYM12AE</b> NXP USA Inc. IC MPU I.MX6D 1.2GHZ 624FCBGA	<b>MCIMX6D6AVT10AC</b> Freescale Semiconductor I.MX 6 SERIES 32-BIT MPU, DUAL A	<b>MCIMX6D6AVT08AD</b> NXP USA Inc. IC MPU I.MX6D 852MHZ 624FCBGA	<b>MCIMX6D5EZK08AD</b> Freescale Semiconductor I.MX 6 SERIES 32-BIT MPU, DUAL A	<b>MCIMX6D6AVT08AC</b> NXP USA Inc. IC MPU I.MX6D 852MHZ 624FCBGA
					
<b>MCIMX6D7CVT08AD</b> NXP USA Inc. IC MPU I.MX6D 800MHZ 624FCBGA	<b>MCIMX6D7CVT08AE</b> NXP USA Inc. I.MX6D ROM PERF ENHAN	<b>MCIMX6D5EYM12AD</b> NXP USA Inc. I.MX 6 SERIES 32-BIT MPU ARM CO	<b>MCIMX6D5EZK08AD</b> NXP USA Inc. I.MX 6 SERIES 32-BIT MPU DUAL A	<b>MCIMX6D5EZK08AE</b> NXP USA Inc. I.MX6D POP ARIK-D POP RO	<b>MCIMX6D6AVT08AE</b> NXP USA Inc. IC MPU I.MX6D 852MHZ 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.

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+00852 9146 4856  
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info@allelco.com

## Certifications & Memberships



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