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See specifications for product details.



MCIMX6D6AVT10AD

Manufacturer Part Number	MCIMX6D6AVT10AD
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MCIMX6D6AVT10AD
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX6D 1.0GHZ 624FCBGA
Package	624-FBGA, FCBGA
Data sheet	i.MX 6 Series Fact Sheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MCIMX6D6AVT10AD - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6D6AVT10AD datasheet/specifications on AllelcoElec.com.
Request a quote for MCIMX6D6AVT10AD, please send us email: info@allelco.com

Specifications

MCIMX6D6AVT10AD Tech Specifications
MCIMX6D6AVT10AD - 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 ² C, I ² 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. MCIMX6D6AVT10AD

Product Attribute				
Part Number	MCIMX6D6AVT10AD	MCIMX6D6AVT08AE	MCIMX6D6AVT08AC	MCIMX6D5EZK08AE
Manufacturer	NXP USA Inc.	NXP USA Inc.	Freescale Semiconductor	NXP USA Inc.
SATA	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)	SATA 3Gbps (1)
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	Keypad, LCD	Keypad, LCD
Series	i.MX6D	i.MX6D	i.MX6D	i.MX6D
Core Processor	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit
Package	Tray	Tray	Bulk	Tray
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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
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
Graphics Acceleration	Yes	Yes	Yes	Yes
Package / Case	624-FBGA, FCBGA	624-FBGA, FCBGA	624-FBGA, FCBGA	569-LFBGA
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
RAM Controllers	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3
Speed	1.0GHz	852MHz	852MHz	800MHz
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Additional Interfaces	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-20°C ~ 105°C (TJ)
Supplier Device Package	624-FCBGA (21x21)	624-FCBGA (21x21)	624-FCBGA (21x21)	569-MAPBGA (12x12)

MCIMX6D6AVT10AD Datasheet PDF

Download MCIMX6D6AVT10AD pdf datasheets and NXP USA Inc. documentation for MCIMX6D6AVT10AD - 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

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PCN Assembly/Origin

 2.73KHz.pdf


HTML Datasheet

 i.MX 6 Series Fact Sheet.pdf


Errata

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

PCN Other

 2.73KHz.pdf

PCN Design/Specification

 MCIMX6YYY 08/May/2019.pdf

Customers Also Interested in

Recommended Products



MCIMX6D6AVT08AE
NXP USA Inc.
IC MPU I.MX6D 852MHZ 624FCBGA



MCIMX6D6AVT08AC
Freescale Semiconductor
I.MX 6 SERIES 32 BIT MPU, DUAL A



MCIMX6D5EZK08AE
NXP USA Inc.
I.MX6D POP ARIK-D POP RO



MCIMX6DP5EYM1AA
NXP USA Inc.
IC MPU I.MX6DP 1GHZ 624FCBGA



MCIMX6D7CVT08AD
NXP USA Inc.
IC MPU I.MX6D 800MHZ 624FCBGA



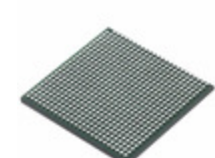
MCIMX6D6AVT10AC
NXP USA Inc.
IC MPU I.MX6D 1.0GHZ 624FCBGA



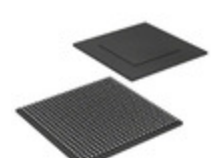
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IC MPU I.MX6D 852MHZ 624FCBGA



MCIMX6D6AVT10ACR
NXP USA Inc.
IC MPU I.MX6D 1.0GHZ 624FCBGA



MCIMX6D6AVT10AER
NXP USA Inc.
IC MPU I.MX6D ENHANCED 624FCBGA



MCIMX6DP6AVT1AA
NXP USA Inc.
IC MPU I.MX6DP 1GHZ 624FCBGA



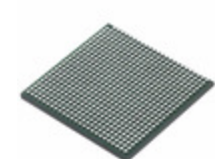
MCIMX6D6AVT08AC
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IC MPU I.MX6D 852MHZ 624FCBGA



MCIMX6D6AVT10AC
Freescale Semiconductor
I.MX 6 SERIES 32 BIT MPU, DUAL A



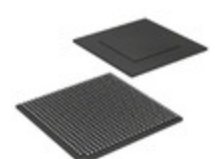
MCIMX6D5EZK08AD
NXP USA Inc.
I.MX 6 SERIES 32-BIT MPU DUAL A



MCIMX6D6AVT10AE
NXP USA Inc.
IC MPU I.MX6D ENHANCED 624FCBGA



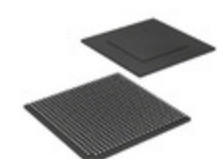
MCIMX6DP6AVT1AA
Freescale Semiconductor
I.MX 6 SERIES 32-BIT MPU, DUAL A



MCIMX6D7CVT08AC
NXP USA Inc.
IC MPU I.MX6D 800MHZ 624FCBGA



MCIMX6D5EZK08AD
Freescale Semiconductor
I.MX 6 SERIES 32-BIT MPU, DUAL A



MCIMX6DP4AVT1AA
NXP USA Inc.
IC MPU I.MX6DP 1GHZ 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.

Certifications & Memberships



BANK



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